

MICHIGAN FARMER

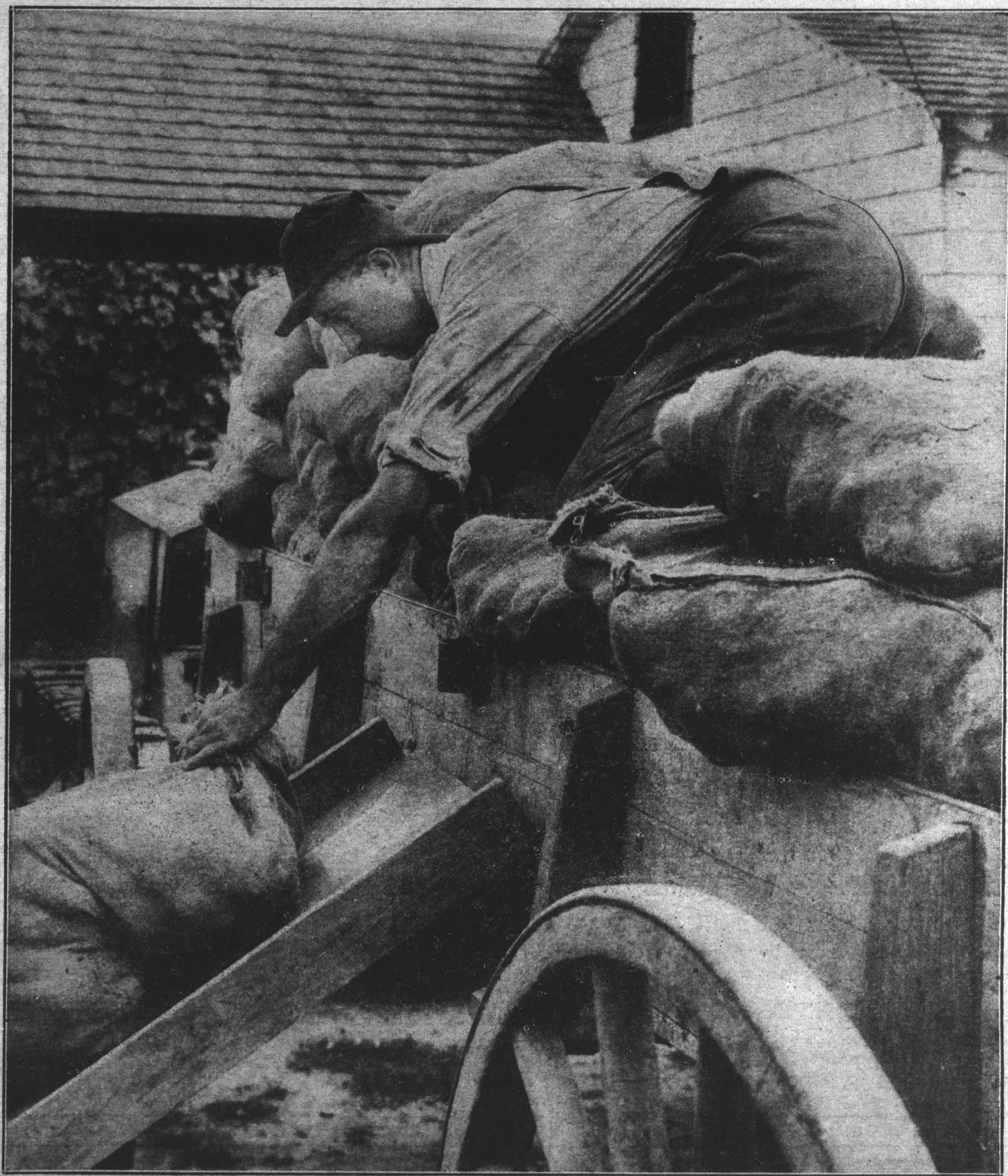
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LIVE STOCK
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VOLUME CLXI

MICHIGAN FARMER

AND LIVE STOCK JOURNAL
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A Practical Journal for the Rural Family
MICHIGAN SECTION THE CAPPEK FARM PRESS

QUALITY
RELIABILITY
SERVICE

NUMBER FOURTEEN

Fall Management of the Flock

Some Essential Factors in Getting Poultry Ready for Winter

By Clarence M. Ferguson

Mgr. Michigan-International Egg Laying Contest

EACH season in turn brings its poultry problems. We must not forget in our rush to harvest the pumpkins and corn, the beans and potatoes, and to sow the wheat, that we have a poultry crop to transplant if we are going to get good yields. We are frequently asked when pullets should be housed and what care they should have in preparation for winter.

The real foundation for a good pullet flock has been laid much earlier in the season and started last spring when the breeding pen was selected or the baby chicks were purchased. However, the summer care plays a big part and now on every care must be exercised to maintain health and vigor if maximum results are to be obtained.

Early hatched pullets should be housed and laying by this time but the great majority of this year's pullets were later hatched. We usually plan on large plants to have the pullets in laying quarters when they are six months of age. Leghorns and Anconas can be housed earlier by ten days or two weeks, as they usually come into production considerably younger. For the average farm flock where the pul-

lets vary in ages, it is usually best to plan on having them housed by October 15. Birds which are still growing and are immature will do better on range so we hesitate to shut them up until they are nearly ready to commence laying.

The houses should be gone over and given a thorough cleaning, disinfecting and overhauling. There are sure to be window panes missing, which will give better service replaced than sub-

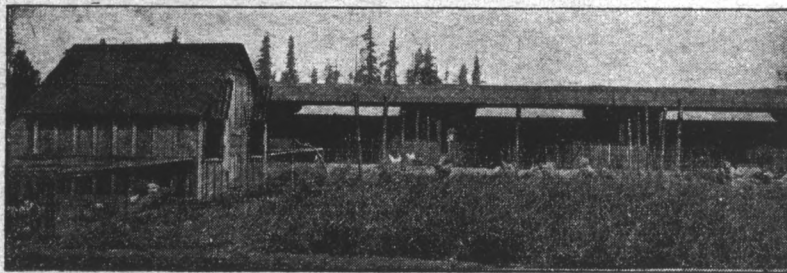
stituted by a gunny sack later in the fall. Repair all loose boards and bats where drafts might originate, and see that the roof has no leaks. Nothing will help the general appearance of a house as much as a good coat of whitewash. This aids in keeping down diseases and adds to the efficiency of the lighting. The more sunlight we can utilize by having plenty of glass, kept clean, and by supplying a reflecting medium as whitewash, the less arti-

ficial light is required during short days.

Poultry house floors have always been a bone of contention. We have about concluded that a floor may be made of anything if it comes up to two or three standards. It must first be durable, easily cleaned and dry. Low, damp floors are injurious to general conditions and health of the birds. It may pay you to replace old dirt floors with concrete. In so doing be sure to have a few inches of some insulating material, such as cinders or coarse gravel under the cement. A two-inch floor is plenty heavy enough and can be put in fairly cheap. We have put a coat of asphalt over concrete to prevent capillary water and find it gives excellent results.

A straw loft arrangement will be found beneficial in many poultry houses, particularly those of the gable roof type. This can be readily put in by running a few two-by-fours across the house and covering with narrow lumber of a cheap grade. We usually recommend leaving about four inches of space between the boards. This is

(Continued on page 343).



Poultry Houses Should be Put in Good Condition Before Flock is Put in.

The Narrow Way to Good Dairying

Supplying the Full Needs of a Good Cow Without Waste Assures Profits

By M. G. Rebert

LISTEN to what the department of agriculture did with a mature Holstein cow. The animal was fed on good pasture in summer and corn silage and alfalfa hay in winter, but she was given no grain. That cow consumed an unknown quantity of fresh grass during the 140 days she was on pasture, and ate 9,014 pounds of alfalfa hay and 8,985 pounds of silage during the remainder of the year—a matter of some nine tons of roughage. The cow produced 14,210 pounds of milk, which contained 470.24 pounds of butter-fat.

In the succeeding year, when, in addition to about the same amount of roughage, the cow ate 7,056 pounds of grain, the animal yielded 25,499 pounds of milk and 823.11 pounds of butter-fat. Thus by the addition of a relatively small amount of the right sort of food the butter-fat production was almost doubled.

What such facts means to the farmer in dollars and cents is shown by another recent investigation made by the department of agriculture. This investigation proved that cows which produced an average of 3,250 pounds of milk per annum showed an average yearly income of \$32.25 above the cost of feed, while those averaging 13,250 pounds yielded an average income per annum of \$218.10 above the cow's feed. The cows in this latter group produced less than four times as much milk as those in the first group, while the average income above the cost of feed was nearly seven times as great.

A cow is merely a machine for making milk. To be run to capacity she must be fed scientifically—that is, given every food element necessary for her to make her maximum production and yet fed so there is no waste. Merely to keep a cow alive requires a huge quantity of food. But such a

mere maintenance ration will not enable the cow to produce milk in any quantity. It is the balanced ration, provided over and above the maintenance ration, that enables the cow to make milk. Unless this is provided in proper and sufficient quantities, what is fed for maintenance is largely wasted. And this feeding question offers a very nice problem in mathematics.

Now, a balanced ration does not consist of a scoopful of this and a pailful of that. It is a mixture of grains, with roughage, of which the protein, carbohydrate, fat, and fiber contents are known and provided in definite proportion, so as to form a scientifically compounded ration that will give a cow all the nourishment of every sort she needs and yet not waste anything. And when it is compounded, the farm-

er must learn, by trial, experiment, and record, to feed each cow the maximum quantity she can use profitably and yet not waste anything. It is a nice little problem that calls for a keen, analytical, observant mind. It goes without saying that a farmer who doesn't know whether his cow gives fourteen quarts or eight quarts at a milking can never figure out for her a balanced ration, or feed her properly if someone else balances it for him.

Such a problem cannot be satisfactorily solved without the use of figures—actual figures in black and white—for there must be exactness. The milk must be weighed, the weights must be recorded, the butter-fat content must be ascertained, the quantities of feed consumed must be recorded, and the record must be studied. Without such

records one can never know how much milk a cow gives, how much butter-fat she produces, how much she eats, or how much money is made or lost on her in a year.

For, strange as it may seem, no farmer really knows about the yield of any cow unless he weighs and records the milk production. The reason is that cows vary so much. Some milk heavily for two or three months after freshening, and then fall off rapidly. Some never give much at a milking, but their flow continues unabated throughout their lactation period. Only by keeping careful records can one ascertain how cows vary in productiveness.

The University of Illinois found, after long and careful investigation, that the dairy cattle of the United States might be divided into three classes, with about equal numbers in each class. The average yearly production of the first third was estimated at 134 pounds of butter-fat. The second class averaged 198 pounds of butter-fat. The third produced 278 pounds. The cows in the first class actually impoverish their owners. Those in the third class are the mainstay of the dairy business. On the other hand, there are a number of cows which have produced more than 1,000 pounds of butter-fat in one year.

"Breeding up" and "feeding up" are steps in the solution of the milk problem. Proper feeding alone would vastly increase the amount of milk supplied by the present herds of the country. Proper breeding would, in the course of a decade, work wonders. That means five generations of cows. The use of pure-bred sires, the proper balancing and feeding of rations, and the keeping of milk records would make over our dairy industry in a decade.



Both Cows, But One Annually Yields 1,000 lbs. of Butter, the Other 175 lbs.

MICHIGAN SECTION THE CAPPER FARM PRESS



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DETROIT, OCTOBER 6, 1923

CURRENT COMMENT

True leadership will subordinate personal advantages to community welfare.

Being the whole cheese in a community is too often a bad thing for the community.

The road leading to a permanent scheme of orderly marketing will sooner or later pass through the field of orderly production.

It is quite as important to ventilate the brain with a little good reading and by the inspiration of associating with some man of noble qualities, as it is to ventilate the dairy barn.

Back in 1917 farmers had much trouble in getting their supply of good seed corn. From many sections come reports that the situation does not look real favorable for an adequate supply of good seed for the 1924 crop. It is yet time for our farmers to forestall such an emergency. But this thing will likely happen, that out of the abundance of well-formed ears on the good farmer's cornstalks will be gathered enough for himself and to sell at high prices to a slothful neighbor.

Needs Better Foundation

MARKETS which have no bottom are a great detriment to the growers of peaches, plums and other perishable fruit. They come, undoubtedly, because a large crop must be handled in such a short time.

At such times, the buyers bear the market and make conditions even worse than they would be normally. But buyers, being human, want to "get theirs" when they can, so they can not be looked to to help in the situation. The farmers themselves have to take care of it. With the buyers, business is business. With us the business of marketing should be our business, for the remedy lies in rectifying marketing conditions. The grower should use such means as are necessary to lengthen the marketing season so that the market will keep just a little hungry for the fruit. The erection of coolers in fruit sections will undoubtedly do this. This factor is already being realized, and coolers are being erected, mostly by cooperative organizations.

We feel sure that members of such associations which have refrigerating facilities available, will get much better prices than those who have marketed their crop haphazardly. The more organized and standardized the

marketing of peaches and other perishables becomes, the less prevalent will be glutting of the markets. We certainly do not grow more of these perishables than the county can consume, but we do grow more than it sometimes can handle in a short time.

The bottoms of our markets will be more substantial when we build better foundations for them.

Agriculture In Perspective

THE really tragic thing about agriculture today is that we do not know where we are going. For instance, one group is earnestly going in the direction of price fixing, while other groups are taking entirely different roads.

This is unfortunate, since so many efforts are now being made in behalf of agriculture. These efforts are not guided by any common end and are, as a result, often at cross-purposes. It would seem, therefore, that some comprehensive plan should be formulated which, when carried out, should bring about something worth while to agriculture.

In harmony with this general idea, the farmers, extension men and farm leaders of Colorado have gotten together and mapped out a course of work. In formulating their plan, they did not for a moment forget the real conditions of the farms of the state, nor the relations of the farmers to other groups. Their code was worked out from the ground up, and not from the top down. It has much to commend it to a wider circle of farmers. We give, herewith, the full text of the code.

Farm returns commensurate with ability, risk and investment involved.

A. To adapt production to market requirements.

1. Survey of local and outside markets.

a. Consumption requirements of market centers.

b. Production and marketing costs.

c. Transportation to consuming centers.

1. Cost.

2. Service.

2. Market crops through your own live stock.

a. Grow crops to be fed.

Amount of each.

3. Grow kind of cash crops markets will handle. Amount of each.

4. Standardize on variety and quality of cash crops.

5. Orderly marketing.

6. Home market the first to be supplied.

a. Farm home supply.

b. Local markets.

7. Adapt farm business and rotation to meet economic conditions above outlined.

8. Farm financing.

B. To make rural home life attractive.

1. Balanced diet for the family.

2. Thrift and attractiveness in dress.

3. Labor saving devices and conveniences.

C. To interest children in practical farm work and farm home life through club work.

D. To develop progressive communities.

1. Where leadership is developed.

2. Closer relationship between town and country.

3. Good schools, churches and recreational centers.

With such a declaration of purpose definitely before them it is not going to be difficult for the farmers of Colorado and their leaders to coordinate their efforts and, thereby, not only make those efforts more effective but, because of the saneness of the program, attract the cooperation of many strong men who could not be appealed to by some less comprehensive program.

The Shell Game

IN days gone by bunko men played the shell game to advantage, but in these modern days they have found better

methods of working their game.

Although it is not proper, or fitting, to compare poultry raisers with bunko men, the fact remains that most poul-

try men are still working the shell game. It seems that they have not yet found anything better than taking something-with-a-shell-around-it to the grocers and getting some of the necessities of life in exchange.

In the past, the buying of eggs was having somebody work the shell game on the consumer. Sometimes he got good eggs and sometimes he didn't. But now days the men in between the producer and consumer have taken the guess out of the business by candling and grading, and are selling selected eggs instead of hermetically sealed packages of mystery.

However, poultrymen are fast learning that it is not necessary for an in-between man to do this. They are starting to do it themselves. By co-operation, many egg marketing associations have been formed, and reputations are being made, and profits increased by standardized and efficient farmer marketing.

Michigan has made a start along this line. Last month the Michigan Poultry Association was formed. Its ultimate purpose is to improve the quality of Michigan eggs and thus gain them higher recognition on the country's markets. The start is small and plans still somewhat indefinite, but it is a start, nevertheless. It is a start in the right direction for it will ultimately bring Michigan poultry producers out of the shell game and into real honest-to-goodness marketing. This association therefore warrants the loyal support of all Michigan poultry producers.

Expensive Live Stock

THE excuse often given for not putting some good animals in the herds or flocks on many of the farms of the state is that such stock is too expensive.

But we are moved to ask as to the basis on which we should determine whether an animal is expensive or a good investment? Should it be the price paid alone, or the purchasing price set off against the income secured from the animal bought?

For instance, a litter from a scrub sow often weighs less than a thousand pounds at six months. There are many sows giving their owners litters that will go over the ton mark at that age. One sow, of which we have just heard, produced a litter which, when a half-year old, tipped the scales at 2,970 pounds.

It is certainly not difficult to see that a farmer who paid twenty-five dollars for a sow that brought him less than a half ton of pork per litter at six months was buying a far more expensive animal than did the farmer who paid fifty dollars for the one that brought into this world a litter that weighed nearly a ton and a half at the same age.

Too frequently the scrub animal is the most expensive animal to buy, and the best are just as frequently the cheapest, despite the larger number of dollars required to get title to them.

Holding the Boys

THE well-known Biblical verse, "Where their treasure is there will their hearts be also," states a principle as true in the lives of our boys as in the experiences of adults.

Evidence of this truth has just come to us in the form of statistics on the training of boys in rural high schools. The Federal Board of Vocational Education has just compiled this data gathered from the several states.

These figures show that fifty-nine per cent of the boys who have had vocational training in the public schools are now engaged in practical farming, six per cent more are engaged in occupations related to farming, while nine per cent are enrolled in agricultural colleges. This makes a total of seventy-four per cent who are making use of their agricultural training.

Rural high schools, where agriculture is not being taught, have quite a different story to tell. A survey of 271 such rural high schools in one state showed but 3.6 per cent of the graduates interested in agriculture, while the high schools with agricultural training in the same state showed 45.2 per cent in agriculture. About the same ratio held in the other states.

In addition to this, the school "mortality" rate, or the number who do not complete their school work, is only two-fifths as great in schools providing agricultural training as in other high schools. This loyalty makes for efficiency and economy in the administration of such schools.

We confidentially believe that the agricultural work in our high schools will, in time, become a real factor in promoting a better agriculture.

Musick

THE teacher play a piece. First it was the other day I heard Sari's piano like a man whistling out in the fields, kinda happy like, then there was what you call slight noises like thunder a comin'. This kept a comin' stronger and stronger. Then come the patterin' of rain, and still stronger and stronger the thunder, when all of a sudden, biff, the lightning struck. Then there was what you call lots a noise and confushun. But soon that gets less and less and the thunder gets to be just a rumble way off. In a little while everything is peaceful and quiet like.

We got through that storm all right, but, by gum, you know I was reachin' for umbrellas,

dodgin' lightnin', and doin' such-like while it was goin' on. But afterwards she played a piece about babblin' brooks and sunshine, so I got the happy, sunshiney feelin' again. This just shows what musick kin do to you.

It's a kind of a language. It's what you call universal, 'cause the Dutchman and the Hottentot kin understand it the same as we, even if we can't understand the Dutchman or the Hottentot. It is the language of life, and like life, it's got what you call climaxes, babbling brooks, storms, and etc.

Musick is educated noise. It agrees with itself and the folks what hears it. There ain't nothin' what is so disagreeable as musick what don't harmonize with itself; for inst., like when Sari is practicin' her piano lessons. That's somethin' like war must sound.

There's musick in nature, like the whistlin' of the winds and the babblin' of the brooks and there's musick in voices, like the moooin' of the cow and the crowin' of the rooster and the laffin' of the school teacher over near Randall's creek.

Sophie also makes musick. When she says, "It's time ta eat," it sounds nice, but when she says, "Hy, come on, it's time to get up," it don't harmonize with me at all.

The piano teacher says musick is made a notes, but they ain't the kinda notes the bank knows anything about. But there's somefolks what has cashed in on their music notes. For inst., some get more in a night for makin' educated noise than we do in a year for growin' corn and pigs. Maybe it's 'cause the corn and pigs don't make the right kinda noise.

Anyhow, musick is all right, 'cause it helps in enjoyin' life. The more musick we get in our lives, the more we like to live. HY SYCKLE.

Many potato growers practice the selection of seed from the bin. This method, while desirable in itself, will not accomplish all that the grower may hope. It is far better to select the tubers in the hills, then one can judge as to the general vitality of the parent plant.

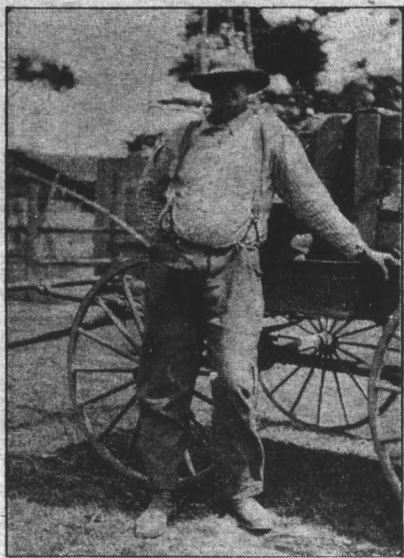


Love Is Strong for Farming

A Crawford County Pioneer Who Started as a Farmer Instead of a Lumber Jack and Profited Thereby. By Frank A. Wilken

UNDOUBTEDLY it was the pioneering instinct which brought Mr. Frank Love to that part of Michigan which lies between Roscommon and Grayling on state highway M. 18. It must have been so, for he set his stakes there in 1875, three years before Crawford was made a county and when everything was woods.

One might say that he literally went to the tall timbers, but the unusual



Frank Love, a Persistent Farmer.

part of it was that he did not go there as a woodsman; he went there to farm. He cleared land to go farming while most everybody went there after the timber because it was a means of immediate profit. As we see things now, he showed good judgment in becoming one of the few farmers of that section, because the lumber camps became his markets, with no middleman's profits, or transportation charges to take toll out of the consumer's dollar. And now he has a substantial and profitable farm, while his neighbors—well, they've cut and gone, trying to work out an existence elsewhere.

The Love farm consists of 360 acres,

of which 120 are cleared. The 240 not cleared is in a good piece of timber which has escaped many a forest fire. These 240 acres will prove a nice heritage for someone, and at the same time they are paying for themselves by a conservative cutting. This again indicates Mr. Love's good judgment, and his foresightedness in the conservation of natural resources.

Mr. Love has kept the 360 intact, although the scarcity of labor at times makes it a little hard to care for, because he figured he could leave each of his children a good farm. But, instead, most of the children have left him for other activities and their interests are elsewhere, although one son is at home helping him now. This is not mentioned because it is unusual, but because it has occurred in many a farm home throughout the land. The rapid advancement of industry in the last decade has called many younger people to the cities and, therefore, the carefully thought out plans of rural parents for their children's future have often gone unfulfilled.

About seventy acres of the farm are worked in a rotation which consists of clover hay, corn, and oats. This rotation has proven very satisfactory. Alfalfa is not included as one of the farm crops, since clover has not run out like it has in some parts of the state, and it fits in the rotation better than alfalfa would.

Mr. Love lets none of his crops go off the farm in the raw state, but puts them through dairy cows and takes the finished product away in cream cans. At present he has fourteen crop refineries in the shape of Durham cows. He has selected this breed because experience has shown him that they are good cream producers and when he wants to get the animals ready for the block, he can ask the butcher for a bid on a good carcass.

These cows are bringing a net profit of about \$60 each, not a very high return, some dairymen think. In fact, Mr. Love has had some interesting discussions with prominent dairymen

regarding his cow returns, and has maintained that if one charges the feed at market prices, makes a labor charge and adds all the other costs that the cow is responsible for, a \$60 net profit is not a bad profit for a good cow.

In this he uses good business sense, as it is better to discount your profits than to flatter yourself in endeavoring to show big ones. The former system will urge one to improve his methods and management, while the latter will tend to make one careless with expenditures. Mr. Love has kept his farm methods efficient by using the non-flattering method of keeping books.

The cows are kept in flush production during the summer, as Mr. Love's best markets are at that time of the year. He sells his cream to the camps and resorts on Higgins Lake and has found that a very fine market. When the resorting, hunting and fishing seasons are over, the cream is made into, and sold as butter.

The fertility of the Love farm is kept up entirely by the rotation and the use of manure and lime. No other fertilizers have thus far been used. In connection with the discussion of the maintenance of the fertility of his farm, Mr. Love put in a good word for the manure spreader, saying that

five loads of manure broadcasted by the spreader will do as much as fourteen to fifteen loads did before. This is almost entirely due to the uniformity with which the spreader broadcasts the manure.

Mr. Love is one of the progressive farmers of Crawford county. He is a strong supporter of the county agent work which R. D. Bailey is doing in that county. He attends many of the doings of farmers around the state and so keeps informed of all the latest developments in agricultural lines.

It was not hard for us to find the Love place, because it is kept up in a progressive way. At the time of our arrival Mr. Love and his son were at a neighbor's, swapping cows. Even though Mrs. Love was busy washing, her house was as neat as a pin. While waiting we replenished our camping commissary department with eggs, butter, milk, and salt-rising bread from Mrs. Love's pantry. The bread and butter especially, bespoke of the efficiency of Mrs. Love in the regular rural housewife duties.

And when Mr. Love came—well, you can see by his picture that the only kind of a talk you could have with him would be a wholesome, good-hearted and interesting one. And that is what it was.



The Love Farm Home Has the Appearance of Orderliness.

A Blast for Land Clearing

Or the Attitude of Upper Michigan Farmers on the Land Clearing Program

By W. N. Clark

THE Michigan Agricultural College recently took steps to cut in half the extension work in land clearing that is being carried on by the College. It has been stated that the College authorities have been influenced to take this action by the attitude shown by some of the farm organizations of the state.

The farmers living in the Upper Peninsula of Michigan, with whom most of this land-clearing extension work has been done, regret and disagree with this attitude and action of the farm organizations and the Agricultural College. They believe that Lower Peninsula people should not attempt to dictate what types of extension work the Agricultural College should carry on in this new country, or what land should be cropped in the Upper Peninsula. The Upper Peninsula taxpayers feel that they have a right to determine for themselves what form of agricultural extension work they think is most needed in their section of the state. On the other hand, they do not have any desire to dictate to Lower Peninsula farmers what crops they should raise, or what types of agricultural extension work should be followed in that section.

There are approximately fifteen

thousand farmers in the Upper Peninsula. Two-thirds of these farmers do not own sufficient cleared land to enable them to get a living from their farms. A portion of the year, they have to spend in laboring in a logging camp, a mine, or on the roads, in order to support their families. These eight or ten thousand farmers will never

have sufficient farm incomes, and the families who are living on these farms are doomed to poverty and failure in their farming business, unless they can get more land cleared on their farms. The measure of the prosperity and the success of these farmers depends upon the amount of newly cleared land they can achieve in the next



Farmers Getting Close-up Information on Method of Using Bunyan's Hammer.

five or ten years. It is not too much to say that the agriculture of the Upper Peninsula of Michigan will stand or fall on the progress Upper Peninsula farmers make in land-clearing work.

To show the direct benefit rendered to Upper Peninsula farmers by land-clearing extension work, the following example is cited: During the past six months, the Ontonagon County Agricultural Agent has distributed four car-loads of picric acid, totaling 76,000 pounds, for land-clearing purposes in Ontonagon county. The total saving to Ontonagon county farmers on this 76,000 pounds of picric acid and the 76,000 blasting caps, purchased during the past six months, has been \$15,000. Yet, there are farm organizations in the state of Michigan which recently have passed resolutions declaring that this form of extension work should not be carried on, and whether, because of this, or for other reasons, the Agricultural College has taken steps to severely cut down the activities of the land-clearing extension forces of the state.

It is not a question whether or not there are good and sufficient reasons for the state not using public funds to encourage the opening up of new

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LATE AGRICULTURAL NEWS

MICHIGAN ADOPTS STANDARD POTATO GRADES.

CONFORMING to the resolutions and written requests of the Michigan Potato Growers' Exchange, the Michigan Potato Producers' Association, the State Potato Shippers' Association, the Michigan Agricultural College, and others, rules and regulations establishing and promulgating standard grades for Michigan potatoes have been issued by Commissioner of Agriculture L. Whitney Watkins.

The grades are "U. S. Fancy No. 1," "U. S. No. 1," "U. S. No. 1 Small," "U. S. No. 2," and "Ungraded." These official grades are effective October 1, and are mandatory in that all shipments of potatoes in the future must go out under one of the grades so defined, and the bags or other containers are required to be branded or labeled showing the name of the grade and net contents.

Thus Michigan growers have forged another strong link in the chain of standardization, recognizing that to compete with other producing states and to insure the preferential markets and the premium prices that the quality of Michigan fruits and vegetables justly merit, it is imperative to pack and ship under standardized grades, and in the adoption of the U. S. Grades for Michigan potatoes, all consuming markets are at once familiar with what may be expected when bidding for the Michigan product.

MICHIGAN MAN ELECTED.

AT the fifteenth annual vegetable growers' convention, held in Buffalo, New York, George Starr, of the Horticultural Department of M. A. C., was elected secretary to succeed P. H. Nissley, of New Jersey. This is the second time within recent years that a M. A. C. man has held this most important office in the vegetable gardeners' association. C. W. Waid, now of Ohio, was long active in that office.

The chief subjects of discussion at this convention were on advertising and marketing vegetables as the greatest problems and opportunities of the vegetable growers lie in those two subjects.

The vitamin content of vegetables makes a big talking point in urging the greater use of vegetables in the daily diet.

The real big problem of the vegetable growers, however, is the lack of good marketing organization. This, with all the main factors of efficient marketing, were ably discussed by Aaron Sapiro, of the American Farm Bureau.

Other features of the convention were a discussion of municipal markets by G. V. Branch, of the Detroit Municipal Markets; talks on necessity of good seed by various college experts; a trip through Erie county, and a fine banquet tendered by the New York vegetable men.

All the old officers were elected, except the secretary. The first two places in the celery contest were won by growers from Oregon, while the third place was captured by a grower from Ontario. Ohio got the banner for having the greatest attendance from an outside state.

TO STUDY HANDLING OF AMERICAN GRAIN IN EUROPE.

INVESTIGATIONS of the methods of discharging and handling American grain at the original points of entry in Europe are to be undertaken by the department of agriculture.

Thirty large farmer-owned or farmer-controlled grain marketing associa-

tions are now in operation, say the marketing specialists in the department of agriculture. Some of these organizations are pools organized upon a state-wide basis, others are selling agencies serving individual grain growers or federations of local elevators, while others are selling agencies operating in terminal markets.

During the year ending July 31, 1923, the Northwest Wheat Growers' Association, of Portland, Oregon, handled approximately ten million bushels of grain on the Minneapolis and Duluth markets, and six million bushels through the Portland and Seattle terminals.

RAISIN GROWERS WILL REORGANIZE.

THE representatives of the cooperative marketing associations all over the country have been interested in the case of the California Raisin Growers' Association. The announcement is made that Secretary of Agriculture Wallace has approved the reorganization of the association under authority of the Capper-Volstead cooperative marketing act. The right of the association to take controlling title to products by contract with the growers is recognized, and no further investigation of the old raisin growers' association will be made by the department of justice.

The statement made by the department of justice that the new association organized under the Capper-Volstead act, will come under the jurisdiction of the secretary of agriculture, is considered by Secretary Wallace as more significant than it may appear to be on first reading. It is significant in that it recognizes the jurisdiction of the department of agriculture in the matter of farmers' cooperative associations under the Capper Volstead act. It had been reported that the department of justice was questioning the right of the Raisin Growers' Asso-

ciation to take title to the raisins turned in for market by the individual members; also that the department of justice had questioned the penalty clause of the contract between the members and the association.

PRESIDENT STUDIES WHEAT SITUATION.

AFTER consultation with various farm leaders and politicians, President Coolidge has received from Secretary of Agriculture Wallace, a comprehensive survey of the world's wheat situation. Among the suggestions discussed was one proposing a reduction in freight rates on wheat and flour for export, and one increasing the tariff on imported wheat. It was pointed out, however, that as some of the roads depend largely upon the transportation of wheat for their revenues, it might be necessary to increase the rates on other commodities, in case rates on export wheat were lowered.

The President has met a delegation of bankers and congressmen from the northwestern wheat belt, who, with Secretary Wallace and Secretary of Commerce Hoover, and Chairman Meyer, of the War Finance Corporation, in the conference, talked over the situation.

The President has listened to many propositions for relieving the farmer, from government price fixing of wheat at \$1.75 per bushel, to wiping out the Federal Reserve System, repealing the Esch-Cummins law, and turning what is left of Muscle Shoals over to Henry Ford.

Those who have been called into consultation with him say that he is an attentive listener, who is apparently seriously concerned over the agricultural situation and trying earnestly to find in the tangled mass of nostrums a practical remedy for the farmer's troubles.

But he is finding that being President is no small job. Every politician

in congress from the wheat belt is capitalizing the farmer's distress as a means of boosting his own political ambitions. It is unlikely that even after congress convenes in regular session an agreement can be reached for some time on any definite program of action. And it is doubtful if the farm situation will be settled by legislation at least to the satisfaction of those who are promoting the more radical schemes. Senator Capper was right when he said that "Congress cannot perform miracles."

If unable to force the President to call an extra session of congress, the progressive group in the house and senate, under the leadership of Senator LaFollette, say they will hold a conference in Washington early in November to adopt a legislative program.

MUSCLE SHOALS DEVELOPMENTS.

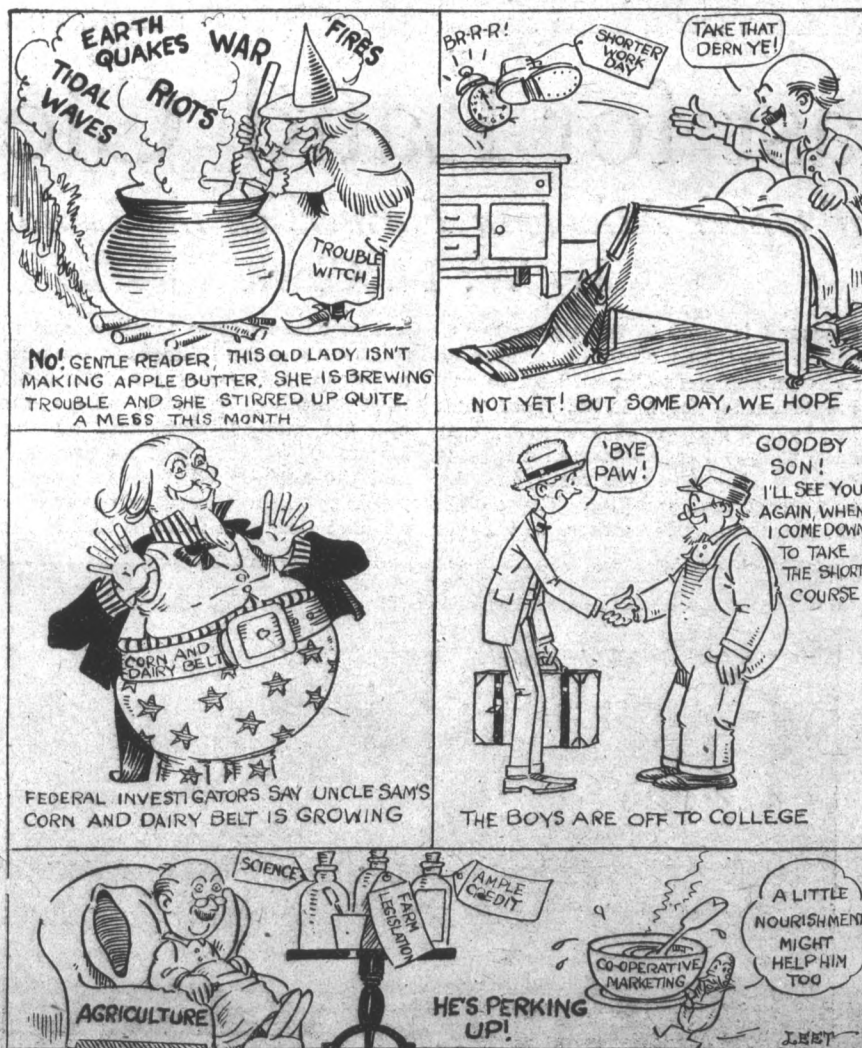
THE sale of the Gorgas steam plant and transmission lines from the Muscle Shoals system to the Alabama Power Company, by Secretary of War Weeks, was heralded by the correspondents, who evidently got their inspiration from the war department's information service, as the collapse of the Ford plan to develop Muscle Shoals as a great power and fertilizer plant. Mr. Ford had asked for an extension of time, but Secretary Weeks claims that the Alabama company refused to grant an extension, that is, the sale was a virtual foreclosure against the government, something quite remarkable in the annals of government transactions.

"The result of this action is to remove this power from the service of the public, as proposed in the Ford tender, and place it instead in the hands of private interests to exploit the public," says Gray Silver, of the American Farm Bureau Federation. "The farm bureau will not change its policy that this Muscle Shoals enterprise and other waterpower must be eventually developed for the service of the people and not for exploitation by private interests."

The information is given out from the White House that President Coolidge does not regard the sale of the Gorgas plant as having any material effect upon Mr. Ford's plan for the lease of the Muscle Shoals dam and development of his fertilizer project. But further negotiations depends upon Mr. Ford making a revised offer excluding that part of the system turned over to the Alabama Power Company.

There is considerable speculation as to what will be done with the Muscle Shoals project in case Mr. Ford does not resume negotiations. The government is already committed to the completion of the dam. Millions of dollars are now being spent on construction work, in accordance with the government ownership scheme promoted by Senator Norris, of Nebraska. It is not believed that anything will be done by the government toward the development of the fertilizer plant, but that when the dam is completed the government will have a vast amount of power on its hands, which it can sell at their own price to the big power companies now monopolizing the transmission lines and hydro-electric power privileges in that part of the country, or it can let the power go to waste and charge the loss to war expenditures. It is probable that the big power companies will get the benefit of the government's millions spent in the development of Muscle Shoals. It is not a pleasing situation that has been brought about under Secretary Weeks' handling of the Muscle Shoals project.

Kernel Kob's Revue of Last Month



There never will be a better opportunity to save money than this page offers. Here are timely needs for all the family at prices which we guarantee to be the lowest in America. Remember, we do not ask you to take our word for it. Order on approval at our risk. Return goods if not absolutely amazed at their value.

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Don't send one cent. Just letter or postcard brings anything. Merely give Number of Each Article You Want. Also state size, and write your name and address plainly. Pay nothing till goods arrive—then only the bargain price and postage. If not delighted with your bargain, simply return the goods and your money will be cheerfully refunded.

Sporty Style Silk Seal Plush Coat for Women and Misses \$10⁹⁸

Where else can you buy a genuine silk seal plush coat of this jaunty style and splendid quality for such a low price? Beautifully modeled of soft, warm lustrous, deep pile silk plush with full lining of beautiful flowered sateen. Newest loose back flared style with belt. Wide 10-inch shawl collar, two pockets and roomy bell sleeves. Length about 34 inches. Women's sizes 34 to 44; misses, 32 to 38 bust measure. State size. Order No. 18E7000. Send no money. Pay \$10.98 and postage on arrival. Money back if not satisfied.



Fur Trimmed Thibet Coat for Women \$5⁹⁸

Another sensational value in a warm winter coat. This becoming model is of splendid Thibet cloth in choice of rich brown or navy blue. The ample collar is of genuine brown Coney fur. Coat is finished with all-around self material belt and two patch pockets trimmed with pretty buttons. Imitation cuff is also button trimmed. Coat measures about 48 inches long, and comes in sizes 34 to 44 bust. Order brown by No. 18E7094. Navy by No. 18E7056. Black by No. 18E7095. Send no money. Pay \$5.98 and postage on arrival for either color. State size wanted.

Men's Sturdy Duck Coats \$2⁹⁸

Strongly made of serviceable dark brown duck with heavy blanket lining. Two large set-in pockets with flaps. Wide corduroy collar. Patent riveted-on buttons. Double stitched seams. Length 32 inches. Men's sizes, 36 to 40 chest. Order No. 18B2314. Price, \$2.98. Same style in boys' sizes, 6 to 9 years. No. 18B2358. Price, \$1.98. Boys' sizes 10 to 14 years. No. 18B2359. Price, \$2.49. Send no money. Pay bargain price and postage on arrival. State size.



Send No Money—Pay On Arrival

Manchurian Wolf Scarf \$3⁶⁹

Beautiful, soft, inexpensive Manchurian Wolf scarf lined with Messaline silk. Length about 44 inches. Width about 12 inches. Tail about 13 inches, long and bushy. Order Black Scarf by No. 80H9000. Send no money. Pay only \$3.69 and postage on arrival.



Bulgarian Effect Gabardine Frock For Women and Misses \$2⁹⁸

An exceptionally attractive fine quality cotton gabardine dress for women and misses. Long roll collar in shawl effect, sleeves and belt piped in red. Entire front of blouse enhanced with exquisite all-over embroidered design in Bulgarian effect with rich harmonious colors. Two streamers at both sides and front. Wide belt embroidered to match blouse. Sizes for women 34 to 44 bust; for misses 32 to 38 bust. State length desired. Colors, navy or brown. Order navy by No. 18E7500. Brown by No. 18E7502. Send no money. Pay \$2.98 and postage on arrival for either color. State size.



Fur Trimmed Polo Coat \$4⁴⁸ UP

Girl's stylish coat of polo that insures real service. Has warm Coney Fur Collar. Two novelty pockets. All around belt. Novelty buttons trim pockets and belt. A durable coat at an amazingly low price. Sizes 7 to 14 yrs. State size wanted. Order Navy by No. 80E7308. Brown, No. 80E7310. Send no money. Pay \$4.48 and postage on arrival. Same style for children aged 2 to 6 yrs. Navy, No. 80E7456. Brown, No. 80E7460. Send no money. Pay \$4.48 and postage on arrival. State size.



Child's Two-Tone Middy Dress \$1⁹⁸

One of the most novel and attractive children's garments ever produced, and sure to be a big favorite for fall and winter. A charming two-piece middy dress, including "snappy" Balkan middy of all red flannel cotton warp with round collar and cuffs. The front collar, cuffs and Balkan bottom are embroidered in exquisite contrasting colors. Rope girdle with tassels at waist. Skirt of navy blue serge in clustered plaited style hangs from a white muslin under-waist. Furnished in red blouse and blue skirt combination only. Sizes 7 to 14 years. Order No. 18G8326. Send no money. Pay \$1.98 and postage on arrival. Be sure to state size.



Heavy Fleece Union \$1²⁹ Suit

Men's heavy, flat knit union suit of good quality cotton yarn, with heavy fleece lining. A sure protection from cold. Closed crotch, flap seat, flat seams. Knit cuffs at wrist and ankle. Sizes 34 to 46. Order Tan Jaeger Color by No. 18C1279. Order Gray Random Color by No. 18C1280. Send no money. Pay \$1.29 and postage on arrival. Order Boys' Sizes 22 to 34. Natural Jaeger Color, by No. 18C1358. Pay 89c and postage on arrival.



Combination Knit Princess Slip for Women and Misses 59c

A combination waist and petticoat, knitted in one piece from splendid wool finished cotton yarn in oxford gray with border stripes. Sizes: small, medium or large. Order No. 18C1488. Send no money. Pay 59 cents and postage on arrival. State size wanted. Order Girls' sizes 6 to 18, by No. 18C1494. Price 49 cents.



Log Cabin Brown Suede Brogue Oxford \$2⁹⁸



Women's combination sport oxford with Log Cabin brown suede vamp and quarter with contrasting brown calf trimming at tip, lace roll and quarter. One-piece genuine oak sole, low walking heel with rubber top lift. Sizes 2 1/2 to 8. Wide width. Order by No. 80J119. Send no money. Pay \$2.98 and postage on arrival. State size.

Women's Fleece Lined Soft Black Kid Finished Comfort Shoe \$2²⁹



Positively America's greatest bargain in a woman's shoe of this kind. Soft kid finished pliable leather uppers have heavy fleece lining that keeps feet warm. Excellent grade natural oak leather soles and low rubber heels. A roomy last that is also dressy. Simply unbeatable value. Women's sizes 3 to 9, wide widths. Order No. 18A880. Send no money. Pay \$2.29 and postage on arrival. State size.

Dressy Kid Finish Walk- ing Boot for Women \$1⁹⁸



Women's black or brown kid finish leather hi-cut lace walking boot. Perforated stitched tip with medallion on toe; neat perforations at vamp and lace row. Medium extension oak sole with rubber tipped walking heel. Sizes 2 1/2 to 8. Wide widths. Brown Kid finish No. 18J195. Black Kid finish No. 18J194. Send no money. Pay \$1.98 and postage on arrival for either color. State size.

Men's Work Shoe \$1⁹⁸



Brown or black work shoe of durable leather. Solid leather inner soles. Heavy double soles. Green chrome outsole. Leather heel. Sizes 6 to 12. Wide widths only. Order Brown by No. 18A758. Order Black by No. 18A760. Send no money. Pay \$1.98 and postage on arrival.

Men's Four- Buckle All Rubber Arctics \$2⁷⁹



State Size.

Order Quick.

Guaranteed best quality all rubber 4-buckle hi-cut arctic for men. Made with double thick soles and seams reinforced. Snow excluding tongue. Furnished in men's sizes 6 to 15. Wide widths. Sensational value. Send quick. Order by No. 80A990. Send no money. Pay \$2.79 and postage on arrival.

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New Lamp Invention Beats Electricity

Beautiful Lamp Gives 400 Candle Power For Less Than 1 Cent A Night

Any home may now have the benefits of electric lights at practically no cost through the remarkable invention of B. J. Davis, a Kansas City expert mechanic.

This amazing invention called the Economy Lamp is beautifully designed and an ornament to any home. There is no wick, chimney or odor. It lights instantly and gives more light than 20 electric light bulbs, 27 lamps or 400 candles at a cost of less than 1/2 a cent a night. It is so simple that a child can operate it with perfect safety and carry it anywhere.

So proud is Mr. Davis of his invention that he wants to send an Economy Lamp free to try, to any reader of The Michigan Farmer who will write for it. If you want plenty of soft, brilliant, healthful light you should accept this generous offer without obligation by simply sending your name and address before this special introductory offer is withdrawn. Write.

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Reg. U. S. Pat. Off.

So made that the cold can't get in, heat can't get out. Has wool fleece lining and windproof exterior, snap fasteners. Warm as an overcoat, costs less than a good sweater. Washes and wears like iron. Ask for the OLD RELIABLE, Brown's Beach Jacket. Three styles—coat with or without collar, and vest.

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MICHIGAN FARMER
Classified Liners bring
results. They cost little.

OUR SERVICE DEPARTMENT

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LAWFUL FENCE.

What is a lawful fence? If A. has a poor, unlawful fence, and B.'s hogs get through, can A. complain? Are there any laws in regard to hogs and bulls?—W. R.

A lawful fence is four and one-half feet high and sufficiently tight and strong to turn the animals ordinarily kept on the farm and not of a breechy disposition. This includes hogs and bulls.—Rood.

INHERITANCE.

My husband (who had been married before and had one son) died over a year before his father did. Father left quite a lot of property. Do I come in for a share or does my step-son get it all?—Mrs. O. E. M.

Only those living at the decease of the ancestor are heirs. The husband of the questioner never had any interest in the property, and she acquired none.—Rood.

A RENTER'S RIGHT.

On July 10, 1923, A. rented a house and garden from B. with the verbal understanding that A. was to have possession of same until November 30, 1923. First receipt was made out like the inclosed. Now Mrs. B. demands possession of her house September 1, 1923. Can Mrs. B. put Mr. A. out of the house? Mr. A. has a fine garden and does not want to move. Could A. demand the right to hold possession of place until November 30, 1923?—R. J. M.

The receipt for the rent recites that there is a lease to November 30. This being so, the lessor has no right to dispossess the tenant nor disturb his possession during the term if the tenant performs the covenants of his lease—such as paying the rent, etc.—Rood.

WHAT GRAIN TO BUY.

Please give me a balanced ration for my Guernsey cow. I have some carrots and mixed hay with not very much clover in it. Kindly tell me what grains I have to buy to balance this. Grain prices seem pretty high to me.—T. H.

Carrots are about the best roots you can get and any kind of roots make a splendid succulent food in a ration where you have no silage. It is not good policy, however, to feed too liberally of them. Twenty pounds per

day is sufficient, and even better than to feed more. A cow should have all the hay or other roughage she will eat up clean without waste. Roughage is cheaper than grain but a cow can not do her best on roughage alone, she can not consume enough of it to get sufficient food nutrients.

For a grain ration feed two pounds of oil meal per day and corn and oats equal parts, or corn, oats and bran equal parts, or corn and bran, two parts bran to one of corn.

Feed the oil meal and a sufficient amount of the other grain to make one pound of grain to every four pounds of milk the cow gives in a day. That is, if the cow gives thirty-two pounds of milk in a day, give her two pounds of oil meal (one pound each, night and morning), and also six pounds of the other grain, making eight pounds in all.

THE WATER SEPARATOR.

We are using a water separator and we let the milk set for twelve hours before it is drawn off. Does all the butter-fat raise with the use of a water separator? If not, what per cent does not? A cream separator agent told me all the cream would not raise by gravity.—T. W.

It is true you can not get all the cream to rise by any gravity process. The water separator, so-called, which dilutes the milk with water, is probably the poorest gravity system of any. The best is where you set the milk in deep cans in ice water and even with this there is quite a loss, many times from one-half to one per cent, while a good centrifugal separator will skim as close as 1-10 to 1-100 of one per cent.

If you are raising calves or pigs and feeding them the skim-milk, this butter-fat is not all loss, for it is good, though expensive, food for them. The creameries and condensaries are paying fifty to sixty cents per pound now for butter-fat.

There is this to consider, however, if you only have a few cows it will take a long time to save enough to pay for the separator.

The value of butter produced in the United States in 1921 was greater than the value of her cotton crop for that year.



FRANCISCO FARM NOTES BY P. P. POPE



I HEAR the hum of the tractor out in the wheat field, and occasionally the sing of a disc as it strikes a stone. It is fully time now that the seed was in the ground, but the frequent and copious rains of the equinoctial period have delayed the planting for a few days. The fitting of the seed-bed is about completed now, however, and with a continuance of fair weather, like the delightful hazy Indian summer that prevails today, the seed will soon be on its way to next year's bread.

No Frosts Here.

The recent frosts that have seared the crops in many sections of the state, and even did much damage south of the state line, have very graciously spared us, to date. The late corn, that seems to be having a harder time than usual in maturing this fall, is still very green and succulent. It is quite well cared for and will make silage of the highest quality, but like most all of the corn in our section of the state, it is blown down badly and will be hard to harvest.

The silo filling is the next job on

the docket, and we hope to have it full to the top before this reaches the reader. It is hard to tell just what to look forward to, however, as regards the amount of time or help it will take. Most of the neighbors, who have harvested their corn so far, have had to go into the fields with corn knives and cut the crop by hand. This is a clean way to do the work, but it is slow and tiresome. A part of our field stands up well enough to permit the use of the corn binder without too much waste, but other parts of it, I am afraid, will look like a hopeless task, except to go after it one stalk at a time with the corn knives.

We shall not try to hurry the work of silo filling, as we have our own power and our own filler, and no one else waiting for it. So, you see, with a silo capacity of 150 tons, the corn crop badly tangled, and extra help none too plentiful, we expect to have corn harvesters' appetites for several days to come. Fortunately, the rest of the field work is well in hand and the sugar beet harvest will not be crowding for two or three weeks yet.

NEW PROCESS STOPS RUST ON FENCE

Farmers Saved Millions of Dollars

Rust and corrosion eat up and destroy many thousands of rods of wire fence every year. The zinc coating on ordinary fence doesn't last as long as it really should—soon cracks or peels off, letting the fence go to rust and ruin. The makers of SQUARE DEAL FENCE have now perfected a new process for treating fence wire which is guaranteed to resist rust—which will not crack or peel and makes fence wire last much longer than before.

This new process is called "GALVANNEALING" and it means just what it says. Square deal "GALVANNEALING" wire passes through a gigantic heat treating furnace where the zinc is literally welded right on to the wire, producing a tough, elastic, rust resisting covering that sticks as tight as the skin on your fingers and will not chip or peel off. Our new fence catalog explains all about this new "GALVANNEALING" process and also illustrates the famous line of Square Deal Fence with its picket-like, one-piece stay wires and big, sturdy, crimped strand wires which keep it tight and trim the whole year round.—known by "The Knot that Never Slips."

FREE We want to send you a copy of this catalog telling about this wonderful new process, FREE and postpaid to every farm owner. We will also include FREE a copy of Ropp's New Calculator (worth 50c) the handy little book that saves figuring, tells value of crops, interest, weights, measures, sizes of barns, bins and answers thousands of farm questions. Write today for Free copies of these two valuable books.

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Learn the
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PUT YOUR NAME HERE
Think of the repair work on thirteen million cars! Engines, electrical systems, batteries, tires, etc. There are not nearly enough trained men to do this work. Graduates of this School [all over the world] are successful, making money in this business, either in good jobs or shops of their own. Age, education or experience make no difference. You can be successful too, if you will get M. S. A. S. practical training now.

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Study autos, trucks, engines, auto electricity, tractors. Learn on best equipment, all in good condition, up-to-date; expert instructors to teach you, a thorough complete course that slights nothing. Plenty of time in every department to learn it right.

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Here you have wonderful advantages. Visit the great plants, Ford, Cadillac, Packard, Lincoln, Dodge, Buick, Hudson, Studebaker, many others. These great companies also endorse this school because they know our course trains you right.

Get factory endorsed training at Detroit, the Auto Center. Be Successful! Write today for 100-page catalog describing school, Detroit, opportunities. Address A. G. Zeller, President. Write today.

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Every man who milks cows for a living knows that Yield is one of the best reasons for Holsteins.

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Holsteins hold all world's records and average highest over all breeds for both butterfat and milk yield.

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HOLSTEINS

ORCHARD AND GARDEN

MICHIGAN FRUITS SPECULATED IN.

SOME interesting figures have been gathered by Prof. Roy E. Marshall, of M. A. C., showing that Michigan apples are marketed more irregularly than those of many other apple producing states.

For instance, Professor Marshall found that Michigan shipped ninety-six per cent of its crop at harvest time, that is, between September and November, and thus only four per cent remained to be distributed during the months from December to April, when the prices average from twenty-five to one hundred per cent higher than during the harvesting months.

In contrast to Michigan, the state of New York shipped only sixty per cent of its crop during the harvest months, less than thirty per cent from December to February, and over ten per cent during the remainder of the winter crop season. Even Virginia does more storing and more evenly distributes her crop than Michigan.

The reason for this condition is believed to be the lack of storage facilities in the Michigan producing sections. The buyers and speculators knowing this, buy up the crop at harvest time and distribute it at a profit or put it in storage for an increase in price later on. Most of the Michigan fruit goes to Chicago for distribution.

In our own Michigan markets it is usually difficult to get the home-grown product after the first of the year. It is perhaps for this reason that the western-grown fruit is so frequently sold to people who live in one of the greatest fruit-growing states in the Union.

NON-PRUNING BRINGS EARLY PRODUCTION.

A PLOT of Duchess apples four years old, at the Graham Experiment Station, produced a good-sized crop of fruit for trees of their size. This plot was part of a pruning test and was the unpruned plot.

In contrast to this plot were the trees which were pruned normally. They had practically no fruit on them, and were smaller in size than the unpruned trees. Trees which were lightly pruned and those which were budded showed a settling of fruit in a reverse ratio to the amount of pruning that was done. Similar conditions were noted in blocks of Grimes Golden and Stayman Winesap apples.

GOOD MARKET FOR MICHIGAN FRUIT.

IN years past we have indicated to southern Michigan farmers how they may profitably sell fruit in the Upper Peninsula. There are signs that the suggestions that have been here made, are being acted upon.

Farmers are accompanying carload lots of apples, plums, peaches and grapes from southern to northern Michigan and disposing of them out of the car at good prices. Peaches and plums were thus sold in Marquette recently at three dollars per bushel.

Lower Peninsula farmers should understand that there is excellent direct rail and water communication with the Upper Peninsula. The Grand Rapids & Indiana, and the Michigan Central Railroads come clear through to the Straits of Mackinac, where there is a car ferry, and now a state-owned automobile ferry, to the Upper Peninsula, at St. Ignace, where connections are made with the Duluth, South Shore & Atlantic Railway, which, with its various ramifications and its connection with the Soo Line, reaches the ex-

tremes of the peninsula—to Sault Ste. Marie at the eastern end, to Ironwood at the western end, and to the copper and iron countries between.

Farmers living along the lines of the Pere Marquette and Ann Arbor Railroads can use this route, or they can ship in unbroken carlots via the car ferries at such points as Frankfort, Ludington or Grand Haven, connecting with lines running into the Upper Peninsula at Milwaukee, Manitowoc, Menominee or Manistique.

The remotest railway points in the Upper Peninsula can thus be reached. What is the best route, will depend,

A bushel for yourself

A bushel for your friends

Delicious Eating Apples

LOEB FARMS

Charlevoix

Michigan

Loeb Farms offers you the very best variety of apples—the "BLACK DETROIT," the finest eating apple grown in Michigan. This apple is dark, luscious red, nearly MAROON in color. They will be carefully selected and ready for shipment October 1st. Each apple wrapped in tissue paper and securely packed in bushel baskets. Do not delay placing your order, as the quantity is limited.

Please ship—bushels of "BLACK DETROIT" to

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Send bill to

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State

Price 1 bu. \$3.00 F. O. B. Charlevoix

Please use the other side for names and addresses in event that you wish to send some to your friends.

LOEB FARMS

Charlevoix, Michigan

The Order Blank Loeb Farms Uses in its Direct to the Consumer Trade in Apples.

of course, upon circumstances peculiar to each case. At the Upper Peninsula destination of the shipment, there is a local newspaper usually, in which a small advertisement can attract the attention of customers. At Ironwood, Iron Mountain, Houghton, Hancock, Calumet, Marquette, Escanaba, Menominee and Sault Ste. Marie—all sizable towns with good local markets—are daily papers.

Customers can be notified to take away their purchases or a local one-horse drayman can be secured to deliver purchases. Fruit may be handled in bulk or baskets, as appears best.

The shipper, while north, may want to look around and pick up a car of fence-posts according to his own selection; or, if he has a turn for sport, he may do a little hunting or fishing, according to the requirements of the season.—L. A. Chase.

PEACH GRADES ESTABLISHED.

MICHIGAN peach growers and shippers have long wanted peach grades similar to the official grades for apples, in order that the Michigan product might be standardized more easily. In compliance with the growers' requests, Commissioner of Agriculture Whitney Watkins, recently issued orders from the State Department of Agriculture that four grades would be effective. These are: U. S. Fancy No. 1; U. S. No. 1; U. S. No. 2, and U. S. No. 3. As in the case of apples, these grades are based on size, color and freedom from blemishes.

A provision of this order requires that all closed containers must have stamped or printed in conspicuous places the name of the firm or person under whose authority the peaches were packed, also the true name of the variety, the name of the grade and the numerical count or net weight.

This law is a great step forward for the peach growers of the state, as it will help to bring Michigan products greater recognition on other markets.

GREAT FALL SALE!

Buy now! Save!

Thousands of genuine bargains like these are now ready for you in this great fall sale. America's choicest stocks of high-grade, fresh, new materials embracing every needed article to build, improve and equip the home and farm. These amazingly low prices are the natural result of carefully planned purchases, which were made by us just at the right time to secure every possible buying advantage. And our savings are your savings. Mail coupon now, or better—order direct from this announcement.

HARRIS BROTHERS COMPANY

No. SA-300 Made of 19 gauge Bessemer steel wire heavily galvanized; 2 inch hexagon mesh in two heights. Bales contain 150 lineal feet, 36 inches high, per bale. 72 inches high, per bale.

Building Material and Supplies at Bigger Savings than Ever—

Barbed Wire Snap!!

Bought by us at less than cost of manufacturing. Made under rigid inspection. 12 gauge open hearth steel wire with 4 point barbs, 5/8 in. long spaced 3 in. apart. 58 pound reels contain 700 feet; 112 lb. reels, 1,400 ft. Coated with special formula weather resisting paint.

No. SA-200, Price, \$140

per reel

112 lb. reels\$2.75

\$140 REEL



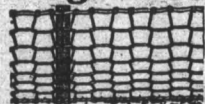
Poultry Netting

No. SA-300 Made of 19 gauge Bessemer steel wire heavily galvanized; 2 inch hexagon mesh in two heights. Bales contain 150 lineal feet, 36 inches high, per bale. 72 inches high, per bale.

\$240

per bale

Hog Fence



No. SA-6, Made of No. 11 top wire and No. 14 intermediate wire and stay wires. Spaced 6 in. apart, 3, 3 1/2, 4, 4 1/2, 5 1/2 and 6 ins., spaced from bottom upwards. Barbed bottom. 26 in. high, per rod.....24c
32 in. high, per rod.....30c

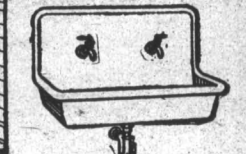


Bathroom Outfit

Consists of white porcelain enameled bathtub, 5 ft. long, deep apron lavatory and closet outfit with white earthenware bowl and highly finished golden oak, copper lined tank with seat and cover to match. Nickel plated faucets, bath cock and supply pipes.

No. SA-166, complete.....\$68.00

One-Piece Sink



No. SA-10, White porcelain enameled roll rim kitchen sinks, furnished complete with two faucets and trap.
Size 18 in. x 24 in. \$12.00
Size 18 in. x 30 in. \$13.00
Size 20 in. x 30 in. \$14.00
White porcelain enameled drain board, 24 in. long, each.....\$5.50

Mixed Nails



No. SA-30, New wire nails. All sizes from 3 to 40d. Handy 100 lb. keg.....\$2.25

Hog Troughs

No. SA-7, Strong non-tip feed troughs for hogs, sheep and cattle. Heavy steel, 12 in. wide, 5 feet long, each.....\$1.95
8 feet long.....\$2.95
10 feet long.....\$3.95

Pipe - Fittings

No. SA-20, Random lengths with couplings, all sizes. 1 inch pipe, per foot.....5c
Big stock of pipe, fittings, and valves

Mixed Bolts

No. SA-184, Mixed bolts. Sizes up to 1/2 in. diameter; 8 in. long. 50 lb. keg, \$2.75.

House Paint

per Gallon No. SA-12, Best formula won't peel, blister, fade or rub off. White, black and 25 non-fading colors. Put up in containers of 1 to 50 gals. Per gal. \$1.85.

Barn Paint

No. SA-13, Guaranteed barn or garage paint. Red, yellow or maroon. \$1.35 per gallon. Green, slate or red, gal. \$1.60

Heating Plants

Hot Water, Steam and Warm Air! Don't make a decision until you get our complete proposition. Finest heating supplies including round and square boilers, radiators, pipe, valves, fittings, warm air furnaces and pipeless furnaces.

Experts to Help You

Send a rough sketch of your building showing size of rooms, size and location of doors and windows for low estimate.

Gas Engine

No. SA-9, Mo n-arch engine with Webster oscillating magneto. Develops full rated horse power. Sure starter and steady worker under all conditions. 1 1/2 H. P. \$45.00
Other sizes, gasoline and kerosene, priced low.

Corn Shellers

No. 4 \$49 Watts Genuine Buy a genuine Watts corn sheller, the world's best, at big reduced prices now. Most popular sizes.
No. SA-1, Capacity 50-75 bushels per hour with 3 H. P. Engine.....\$2250
No. SA-4, Watts corn sheller with cleaning system, cob stacker, and grain elevator, 75-125 bushels per hour with 4-6 H. P. engine.....\$4900
No. SA-4X, Watts corn sheller with cleaning system, cob stacker, grain elevator and automatic feeder. 75-125 bu. per hr. 4-6 H. P. engine.....\$6500

Galvanized Wire

Smooth galvanized 9-gauge wire suitable for fences, stay wires, grape vines and all general purposes about the home and farm. Rolls weigh about 100 pounds.
No. SA-100, Price per 100 lbs.....\$3.25

Roofing Snaps

Galvanized Sheets \$3.00 Per 100 Square Feet. No. SA-21, Heavy weight overhauled galvanized roofing or siding sheets, 2 1/2 inch corrugated. Good condition. Painted red. Per square of 100 square feet.....\$3.00
No. SA-22, Medium weight overhauled, painted, 2 1/2 in. corrugated roofing and siding sheets, per square of 100 square feet.....\$2.50
No. SA-23, New painted 2 1/2 in. corrugated sheets, heavy weight, 22 gauge, wonderful value, per square of 100 square feet.....\$3.50

Roll Roofing

No. SA-24, New red or grey-green crushed slate coated roofing, 35 to 36 lbs. stock on heavy felt. \$1.60 Per roll of 108 square feet with trimmings....
No. SA-25, Smooth surfaced roofing, well saturated, heavy weight, per roll of 108 square feet, \$1.50 with trimmings.....

Millwork from America's Greatest Stocks!

Storm Sash \$2.77	Fine Door \$4.76	Combination Door \$7.70	Check Rail Window \$2.65	Barn Sash \$80c
No. SA-89, Two-light 11-9 in. thick, glazed, 20 ft. 6 in. clear white pine.	No. SA-325, Panelled door, size 2 ft. 6 in. x 6 ft. 6 in. 1 1/2 in. thick. Each.....\$4.75	No. SA-1751, Combination screen and storm door, size 3 x 7 ft., 1 1/2 in. thick. Storm section glazed. Clear white pine. Out-wire screen section. Clear white pine. Each.....\$7.70	No. SA-71, Size 24 x 28 in., 2 light 1 1/2 in. thick. Glazed. Clear white pine. Out-wire screen section. Clear white pine. Each.....\$2.65	No. SA-68, Glass size 8 in. x 4 in. 1 1/2 in. thick. Out-wire screen section. Clear white pine. Each.....\$80c

Many Other Sizes and Styles in Our Building Material Book

Complete Homes! Mail this COUPON!

\$954 This cozy one-story bungalow cottage, size 20 ft. x 28 ft. with five rooms is but one of more than a hundred beautiful modern homes in our latest book of home plans. Designed to be built with big economy. Get our complete home building proposition before making decision.

Presto-Up Garages!

\$145 Every desired size in numerous attractive designs. Single, double and larger models. Patented, Bolt-Together Construction. Up in a few hours. Finest material. Every thing complete. This one, size 10 1/2 x 16 1/2 ft., \$145.00

PLEASE READ! Our catalog of building material and supplies offers thousands of other big savings in farm implements, roofing, millwork, etc. Mail coupon for your copy now.

Catalog of Building Material and Supplies
Harris Bros. Company
Check the squares below to show which books you want. They are free and sent postpaid without obligation to you.

Name.....
Address.....

ADDRESS HARRIS BROTHERS CO. DEPT. SA-42
35th and Iron Streets, CHICAGO, ILLINOIS

How Fifty Cents Earned Two Hundred Dollars

A Hoosier farmer, with a HERCULES Sawing Outfit, cut 25 cords of firewood from straight poles in ten hours working time, with one man to carry and clear for him. His 7-h.p. engine, in those ten hours, burned less than 50 cents worth of gasoline. The wood was worth \$8 a cord right on the ground. Figure the earning for yourself!

What's the reason you can't cash in on cordwood the same way, all winter long?

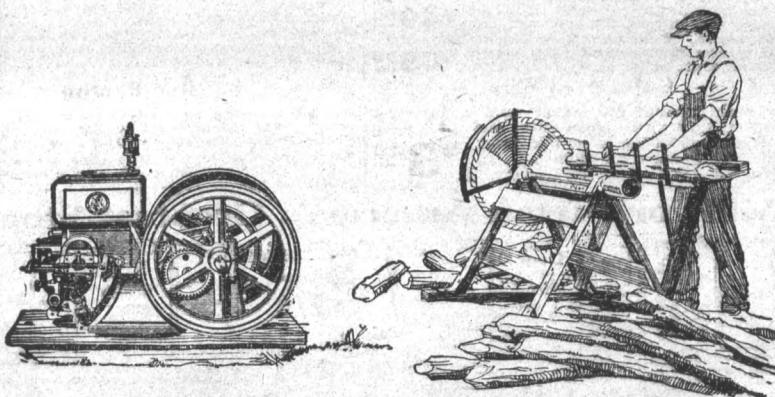
What's fuel going to be worth this winter?

Answer that query according to where you live! Most of us will be glad to get any old wood at most any price. Mixing wood with even poor coal makes a wonderful fire, and cheap! There are down trees rotting away all over America. Must be plenty near you. Turn them into dollars with a HERCULES.

Saw wood. It pays!

Anybody can learn in an hour to run the HERCULES Sawing Outfit. It is self-adjusting, absolutely safe, runs on kerosene or gasoline, turns out an enormous amount of sawed wood—and the engine will do all kinds of other farm-work when you are not sawing. Somebody near you can make you an interesting price on this outfit, or another of different capacity. Write us to learn who to talk with about it.

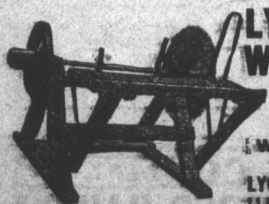
THE HERCULES CORPORATION
Engine Division, Dept. K Evansville, Indiana



HERCULES

SAWING OUTFITS

Pay Their Way Day By Day



**LYON - CORD
WOOD SAWS**
**Big
Savings**
Write for Unusual
Proposition
LYON IRON WORKS,
11 Foundry St., Greene, N.Y.

Mention The Michigan Farmer When Writing Advertisers

SPECIAL FOR \$3.00

I will ship, well packed, by Express, the following true to name, free from disease, well rooted Fruit Trees, 3 to 5 feet.

APPLE.	2 Winesap (winter)
2 Transparent (early)	2 Kieffer Pear
2 Maiden Blush (Summer)	2 Burbank Plum
2 Delicious (winter)	2 Elberta Peach
	2 Concord Grape Vines

This stock is all grown in my own Nurseries, and will be accompanied by state entomologist's certificate showing freedom of disease. Order early, also write for price list of a complete line of Nursery Stock. No Agents. I wholesale direct to planter.

THOMASBEAN, Station A, Leavenworth, Kansas.



Why I Keep a Tractor

BELOW are given some of the reasons why farmers are keeping tractors upon their farms. From the many letters received on this subject we have awarded the prizes to the following:

CUTS COST OF CLEARING LAND.

THERE are two main reasons why I use a tractor: First, it is the cheapest heavy duty power that I can get; and second, it gives me concentrated power in a single unit.

Under the first reason, my tractor does the work of six or seven horses, and yet costs less to keep.

Under the second reason, I find my

put it. It is expensive, but so is hired help. You can put me down, Mr. Handyman, as a satisfied tractor owner and an interested reader of your journal.—Henry E. Lohman.

COULD NOT FARM WITHOUT IT.

MY reasons for keeping a tractor are these: First, by the use of the tractor, deeper and better work can be done. Second, plowing can be done so much more quickly than by horses. Third, the crops can usually be planted in season. Fourth, when the tractor is not in use, it does not eat. We have had a tractor nearly two years and would not feel like farming without one.—George Fisher.

IT KEEPS THE BOYS AT HOME.

IHAVE used a tractor for three years, and believe it is the power to use, because farm help is so scarce and one can do more than twice the work with a tractor. In hot weather you can keep going all the time. I have a boy twelve years old that can take the tractor and do as much as any two men with team, and he enjoys it, too; while if he were to use horses he would not accomplish much. It helps to keep the boys on the farm. It is also very useful for belt power, such as grinding feed, buzzing wood, filling silos and husking corn.—Ernest D. Benedict.

KEEPS HIM ON THE FARM.

FOR the past three years I have used a tractor for the heavy farm work. If I had to do without this implement, I think I should quit farming. The tractor enables me to do more work alone than I could, possibly do with horses, thereby saving hired help, which is an important expense item to the farmer these days. This feature alone makes the tractor cheaper power, if properly cared for. It also saves hard work through enabling us to buzz up wood, grinding feed, and doing other belt work. There are so many jobs on the farm which make the tractor useful that the longer I use it the more necessary it seems to be to the farmer.—C. O. Bailey.

THE TRACTOR AND THE HORSE.

I have heard them talk and argue 'Tween the tractor and the horse; One would like this one the better Than the other way, of course. I am just a humble farmer with Little experience in this line— There's a place where horse is better There's a place where tractors shine.

I have run a kerosene tractor, I have Run it day and night; I have plowed in dew of morning, I have plowed by lantern light. As a horse may be unfaithful, or a Tractor be untrue, But with both in running order both— Will do what they're meant to do.

Then, again, the knockers tell me that It takes a lot of kale And, to burn up all the profits, that The tractor is a whale. How about the average farm horse, Are they not expensive, too, Just to feed, to care, and house them Every day the whole year thru?

There is no winner or no loser, If it came to an honest race; Each will do what is required, when Put in their proper place. As a horse, so is a tractor, young Or aged, new or old— If you give them careful treatment, They'll return it hundredfold. —Henry E. Lohman.

These are the days when the methods of our fathers are being severely challenged.

Why a Radio?

MANY farmers have receiving sets in their homes with which they can pick up the programs of the various distributing stations. While a few have trouble with their equipment, the great majority are delighted with this means of keeping in touch with the outer world.

Would you urge your neighbor to put in a receiving set? Why? Give briefly your reasons and mail to the Handy Man, Michigan Farmer, Detroit, Michigan, on or before October 10. To the writers of each of the five best letters we shall send a first-class flashlight with batteries.

greatest advantage. I can go into the field and plow three furrows at once, thereby taking the place of three men; and at this time this is an item to be reckoned with.

Having settled on a tract of cut-over land in northern Michigan, I find my tractor especially valuable in clearing up my farm. I was told that the tractor wouldn't work on this rough land, but we take it out among the logs and stumps and run it over cradle knolls and when we hitch it on to a log, whether ten or forty feet long, we take it right along to the pile. The same way with stumps. I had a blacksmith make me a heavy hook out of a plow beam on which handles were fastened for quick and easy handling. Fastened at the end of a twenty-foot cable, the tractor can pull stumps that are somewhat rotted faster than by any other method of which I know.

Also, the cradle knolls are leveled by use of a dump scraper attached to the tractor with a chain. It makes little difference how much grass, weeds or brush are growing on the knolls, the tractor pulls the scraper just the same. This work would require at least six horses which would not be practical to work under these conditions. We also use the power for silo filling, wood sawing, grinding feed, etc.—E. B. Storm.

CUTS FIELD WORK IN HALF.

THE reason I continue using the tractor is because of getting my work done in a comparatively short time. With the tractor, I am able to do my work on one hundred acres mostly alone, except during harvesting time. I can also work it long hours without its getting tired. The tractor has come, and come to stay, on our farm. We find it actually cuts our field work in one-half and also furnishes belt power if we need it. We use a 10-20 type, which is just about right to make a handy outfit anywhere you

BOILED DOWN.

TESTS made in Iowa show that teams were able to pull all the way from 8.6 to 21.2 horsepower and exerted from 2,000 pounds up to 23,000 of tractive pull.

The silo is one of the most important factors in bringing profits on the live stock farms. Profits are increased by either getting more for what we produce or reducing the cost of production. The silo not only reduces production costs, but when the silage is fed to dairy cows, it increases by a considerable margin, the price received for what is sold from the farm.

GIVE MANURE ITS DUE.

AN incorrectly reported test of the value of manure made by the North Dakota Experiment Station and published in a recent number of this journal, is hereby corrected. As reported, unmanured alfalfa was credited as yielding fifty per cent more than manured alfalfa. The statement should have read that over a period of seven years unmanured alfalfa yielded fifty per cent more hay than manured brome-grass land.

FARMERS WILL GO LUMBERING.

IT is reported that numerous farmers from Wisconsin and southern Michigan have come north with a view to relieving the financial pressure by undertaking logging operations during the coming winter. A few farmers club together and take a job of logging, it is stated. They use their own labor and that of their sons. Something like that happened last winter, but there is said to be much more in sight for the coming winter season. There remains some uncertainty regarding the prices at which logs are to be sold, though stumpage prices are said to be very high.

BRIEFS FOR THE BUSY FARMER.

THE Grayling board of commerce recently started a movement along similar lines of work as that undertaken by the Standish Board of Commerce. The introduction of pure-bred cattle will be one of the important undertakings. The board members will cooperate with the farmers by making available funds for the purchase of pure-bred stock.

Mr. Livingston, who is looking after land-clearing in northern Michigan, states that there is no more danger in the use of sodatol, the new war salvage explosive, than in the use of any other material of this character. Ordinary care must, of course, be used. Sodatol requires a number six cap instead of a number eight cap, which was so necessary to use with picric acid.

Dr. David Friday, recently president of the Michigan Agricultural College, has been chosen as a director of the Research Council of the National Transportation Institute. In view of the fact that transportation legislation is to be one of the most important subjects before the coming congress, and that government ownership will undoubtedly be championed by certain groups of our population, it is highly important that the public secure unprejudiced information on transportation. The immediate work of the institute will be devoted to a study of rates with reference to railroad investments, transportation costs, distribution of freight charges among various industries, the effect of freight rates on the geographical distribution of industry and agriculture, the relative efficiency of privately owned and government owned roads, the relation of investment in railroad securities to the value of the property, etc.

An ad man has a tip for farms with roadside markets: start your signs four miles or so down the road and lead the buyer to your door.

LOOK FOR THE RED BALL

TRADE MARK
"BALL-BAND"
MARK

The Right Boots for the Job

Boots for work—boots for play—boots for mud or water—slush or snow—boots that are always comfortable.

Wool Boots and Socks, also Rubber Shoes and Arctics, that keep your feet warm as well as dry.

"Ball-Band" (Red Ball) Rubber and Woolen Footwear is made in as many different styles as there are kinds of work and weather.

Go to the store that carries "Ball-Band" and look at the assortment. You will surely find different kinds to fill your various needs.

We make nothing but footwear—
and we know how

Mishawaka Woolen Manufacturing Company
328 Water Street Mishawaka, Ind.
"The House that Pays Millions for Quality"



CARTER Strictly Pure WHITE LEAD

A soft paste which is thinned with pure linseed oil and turpentine to make white paint. Simply tint with colors-in-oil to make beautiful grays, creams and other durable colors. Dries hard and glossy, wears well on all exposures and really gives the service you have the right to expect of good paint.

Concentrated Paint
Sold by the pound—You get your money's worth.

Saws as much as 10 Men!

Now, you can saw 15 or more cords of wood each day with the OTTAWA Log Saw. With wood selling at \$3.00 a cord, owner makes \$45.00 a day. Send for SPECIAL OFFER, now.

NEW MODEL: Write for Special Introductory Offer and advanced information about the wonderful new model OTTAWA—just out. Send your name on postcard today.

OTTAWA 4 in 1 LOG SAW

Get BIG Factory-to-User Offer!

Fastest sawing; easier moved—easy to start in any weather. 4 H-P KEROSENE ENGINE—you need all this power. Shipped quick from nearest to you of nine branch houses at low factory prices.

1—FALLS TREES 3—BUZZES UP BRANCHES
2—SAWS LOGS 4—DOES BELT WORK

Send for Big FREE 32-Page Book, Special Offer and Low Prices. Write today.

OTTAWA MFG. CO.
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Ottawa, Kansas
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Magee Building
Pittsburgh, Pa.

30-Day Trial
Cash or Easy Terms

New Improved OTTAWA

Paint \$1.19 a Gallon

This is a good barn paint, choice 5 colors—Red, Light Brown, Dark Brown, Maroon, Gray. Get Factory Prices on All Paints. House paint, choice 20 shades, \$2.08 gal. Better grade, choice 30 shades, gallon cans \$2.28, 5 gallon cans per gal. \$2.25. We pay the freight. Save money. Write today.

FRANKLIN COLOR WORKS
Dept. M Franklin, Ind.

COAL Blue Ribbon Lump. Get our attractive carload prices. Farmer agents wanted Theo. Burt & Sons, Melrose, Ohio

World's Best Roofing at Factory Prices

"Reo" Cluster Metal Shingles, V-Crimp, Corrugated, Standing Seam, Painted or Galvanized Roofings, Sidings, Wallboard, Paints, etc., direct to you at Rock-Bottom Factory Prices. Save money—get better quality and lasting satisfaction.

Edwards "Reo" Metal Shingles

have great durability—many customers report 15 and 20 years' service. Guaranteed fire and lightning proof.

Free Roofing Book

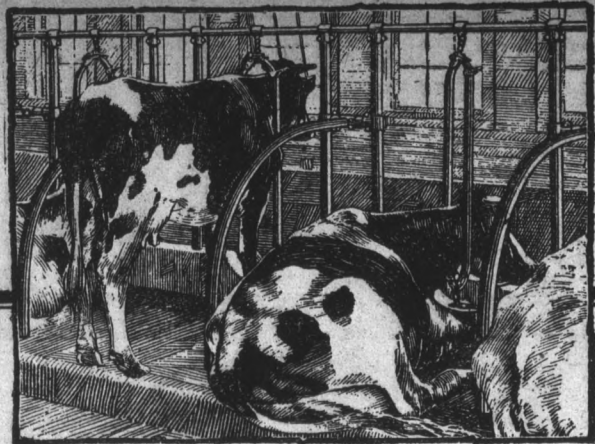
Get our wonderfully low prices and free samples. We sell direct to you and save you all in-between dealer's profits. Ask for Book No. 167.

LOW PRICED GARAGES

Lowest prices on Ready-Made Fire-Proof Steel Garages. Set up any place. Send postal for Garage Book, showing styles.

THE EDWARDS MFG. CO.
1017-1067 Pike St. Cincinnati, O.

FREE Samples & Roofing Book



WM. LOUDEN
Exhibited, in 1907,
the first all-steel stall
ever displayed at a
National Dairy Show.

Increase The Milk Checks— Decrease The Expense

In a nutshell, this is what every milker of cows is striving to do. More milk from less feed, fewer hours in the barn and a saving of wages in caring for the cows, mean more profit each day—a bigger milk check coming in month after month and smaller expense checks going out—results that definitely increase the profits from your cows.

Equip Your Barn to the Cows' Advantage

Louden Steel Stalls and Stanchions make cows comfortable and contented, protect their health, provide sanitation for cows and milk, and prevent waste of feed. The strongest and most sanitary stalls and stanchions built—the most comfortable cow tie made. Simple and neat because properly designed—not cluttered up with troublesome attachments. Couplings are dust-proof, smooth on top and made of certified malleable iron—tough and strong. Tubing is of high carbon Open-Hearth Steel and will last a lifetime.

Louden Barn Experts Will Help You

These trained barn plan men will gladly suggest how to arrange your barn to save thousands of time-taking steps in feeding, cleaning the barn and taking care of the herd—savings that frequently cut the time for doing barn work square in two. Perhaps they can suggest a few little changes in your old barn that will make it new again, so far as convenience and the saving of drudgery are concerned. This service is without cost or obligation to you. It adds nothing to the cost of Loudon Equipment—in fact the time and labor it saves the farmer, year after year, materially increase his savings. Let us help you with your building problems—write to us today.

The Loudon Machinery Company
1936 Court St. (Est. 1867) Fairfield, Iowa
Branches:
Albany, N. Y. Chicago, Ill. St. Paul, Minn.

LOUDEN
STEEL STALLS and STANCHIONS



Are You Going to Build or Remodel a Barn?

Fill out the Coupon. Send at once for the Loudon Barn Plan Book—no charge. 112 pages of barn building information that every barn builder should have. Pictures 50 up-to-date barns with floor plans. Shows details of best arrangement and most economical construction, modern methods of framing, best types of roofs, ventilation, drainage, etc.

Farmers who use this book to help them build a barn

Save Lumber

Save Time

Save Labor

Get More Mow Capacity
and a Better Arranged
Barn That Saves Hun-
dreds of Steps Daily.



FILL OUT AND MAIL COUPON TODAY
The Loudon Machinery Co.
1936 Court Street, Fairfield, Iowa
Without obligation please send me
the Loudon Barn Plan Book.
Name.....
Town.....
R. F. D. State.....
I expect to build (remodel) a barn
(date)..... for (how
many)..... horses..... cows.....

NEWS FROM CLOVERLAND

CLOVERLAND FARMERS GETTING THEIR PORTION.

A NEW government explosive, called "sodatol," is now being distributed to farmers of the Upper Peninsula through the land-clearing service of the Michigan Agricultural College. The price to farmers is \$6.25 per one hundred pounds in car-lots, which also includes one hundred blasting caps for each one hundred pounds of the article. This explosive is produced from salvaged government stocks of war explosives and is packed in fifty-pound boxes. It is said not to freeze and in several particulars to be more satisfactory than other forms of explosives hitherto used. It is somewhat more energetic than dynamite and more sensitive than TNT. County agents are urging local bankers to assist in financing purchases of sodatol.

TO FORM MARKETING ORGANIZA- TION.

CHIPPEWA county farmers are working on a project to incorporate a stock company for the purpose, it is stated, of marketing their products and purchasing commodities for farm use. Meetings held through the county early in September are said to have shown an almost unanimous sentiment in favor of the new organization. Representatives of the State Farm Bureau and the Michigan Agricultural College are assisting in the enterprise. The new organization, it is proposed, will act as sales agent for all the farmers of the county, and as purchasing agent for such standard materials as feeds, twine, flour, and salt. Farmer members will own the stock of the company.

PLANS TO FEED THE FISH.

MR. W. E. MANNING, of the United States Biological Survey, has been at work in the Upper Peninsula, this season, carrying forward the similar work begun last year by Mr. Metcalf. This work consists of a detailed investigation of the shore line and bottom of each lake visited, the collection of specimens of vegetation growing there, the charting of the lake and the preparation of a report recommending the planting of such duck and fish foods as have been found adapted to local conditions. During the present season the survey has been completed in Marquette county, and Au Train lake in Alger county has also been surveyed. Portlake lake, in Houghton county, has been surveyed on its eastern shore, and the work was then wound up in Iron county. Many additional requests for this work are on file at the office of the Upper Peninsula Development Bureau, Marquette, and assurances have been given that the survey will be continued next summer.

SOME FINANCIAL OPERATIONS OF CLUB MEMBERS.

RESULTS coming from club work are revealed in a recent statement from Dickinson county, where there are twenty-eight calf club members. Fred La Vuie sold six small pigs that brought him in \$50, and with the proceeds purchased a calf. Ethel Davidson bought a pure-bred Guernsey calf three years ago, and by way of return in addition to milk sales, has sold one calf for \$55 and has another calf to be disposed of.

HELP FARM BOYS AND GIRLS.

UNDER the auspices of the American Red Cross, Marquette County Chapter, thirty-four Marquette county

rural children had their tonsils removed during the summer. Three clinics were held in as many hospitals of the county. Money for this work was derived from the junior Red Cross fund and the total outlay was \$647. Dental clinics have also been held throughout the county.

A BLAST FOR LAND-CLEARING.

(Continued from page 321).

farms at this particular period when agricultural products are bringing relatively low prices. This is not the work that has been carried on by the land-clearing extension forces of the Michigan Agricultural College. The picric acid that has been purchased through the M. A. C. Land-clearing Department, by Ontonagon county, and the other counties of upper Michigan, has been used by the farmers already located on farms, in an effort to place their farms on a paying basis. Most of these new farmers put all of their small savings into their farms, which they are hewing out of the wilderness by means of their strength and perseverance, and the sacrifices of their families. A large share of these persons purchased this farm land in Michigan upon the solicitation of the regularly constituted officials of the state. If the state should take official action at this time, refusing to cooperate with these persons in bringing these farms to a paying basis, it would be as clear cut a case of abandonment and two-faced dealing as it would be possible to picture.

The farmers of the Upper Peninsula have no desire to pick a quarrel with their brothers below the Straits, for there is no particular movement now going on, towards the opening up of new farms in the Upper Peninsula of Michigan. There is a very decided movement which aims to place the farms now occupied on a basis where the owners can make a living from their land. Land-clearing has gone forward during the past two years at a rate much greater than ever before. The citizens of the Upper Peninsula expect to continue their cooperative efforts towards making the financial condition of the Upper Peninsula farms more secure. They believe all the citizens of the state will gain by having these Upper Peninsula farmers in a position to pay their taxes, the interest on their investment, and a living for the farm family. There is no form of agricultural extension service which can be rendered by the state that will be so valuable to Upper Peninsula farmers as land-clearing work. They would like to have this assistance from the state continued, and, whether it is continued or not, land-clearing on the farms in the Upper Peninsula must not and will not stop.

A large majority of the farmers in the Upper Peninsula are dairy farmers. The price of dairy products, as everyone knows, has remained relatively high as compared to other farm products. Lower Peninsula farmers have nothing to fear, in the way of lowered prices for dairy products from the land-clearing work now being done on the farms of the Upper Peninsula. No proof has ever been given that the volume of dairy products that will be produced in the Upper Peninsula in the next ten years will have any appreciable effect upon the supply and demand or price in the United States. In this connection, there is a question whether the price of butter is not determined by international factors, rather than just the supply and demand in the United States.

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Milk for Children

By Dr. Henry C. Sherman of Columbia University

IN view of the fact that some advocate a quart of milk per day for every child, while others believe that a smaller amount may do as well, the New York Association for Improving the Condition of the Poor, with the cooperation of the Department of Chemistry of Columbia University, undertook an extended series of experiments upon children from three to over thirteen years of age, to determine what quantity of milk per day, taken as a part of a normal diet, would induce the best storage of calcium and phosphorous in the body of the growing child and hence, presumably, the best development of bones and teeth. The investigation was made possible by a grant from the research fund established by Mrs. Elizabeth Milbank Anderson. The experiments were conducted by Miss Edith Hawley under the general direction of the writer.

Groups of average children were taken from city homes to the suburban house maintained by the association, where they lived normally for periods of from ten to fifty days under the constant personal supervision and control of the research worker (Miss Hawley) who slept in the room with the children, prepared their food, and recorded and analyzed the complete food intake and excretory output of each child separately throughout its experimental period.

The investigation was divided into four progressive series of experiments including in all, twenty-one children between the ages of three and fourteen years, and covering a total of 417 experimental days.

In the first series of experiments the children received an ordinary mixed diet containing 750 grams (about three-fourths of a quart) of milk for each child daily, this being about the amount they were supposed to have

results: "The dietary rule of a quart of milk each day for every child is much more than a precept based on individual opinions or drawn by analogy from the results of feeding experiments with lower animals it now rests on scientific evidence obtained by extensive and intensive experiments directly on the children themselves."

COMMAND HIGHER PRICES THAN A YEAR AGO.

PURE-BRED dairy cattle brought relatively higher prices in 1922 than other pure-bred animals, according to a recent survey made by the



This Jackson County Leader, Owned by L. A. Sedgwick, Gave 979.4 lbs. of Fat in Two Years, Milked But Twice a Day, and Dropped Two Calves.

United States Department of Agriculture. Prices did not reach the peak of 1920, yet the averages indicate that dairy cattle have been produced at a profit to dairymen.

Reports were received on a total of 7,597 dairy animals, divided among the breeds as follows: Guernsey, 2,160; Holstein, 2,796; Ayrshire, 509; Brown Swiss, 157; Jersey, 1,975. Average prices received were, Ayrshire, \$181.73; Brown Swiss, \$123.53; Guernsey, \$273.36; Holstein, \$187.15, and Jersey, \$186.50. The highest prices by breeds were, Ayrshire, \$3,000; Guernsey, \$7,500; Holstein, \$5,000, and Jersey, \$5,000.

A NEW COUNTY DAIRY CAMPAIGN.

THE Extension Department of M. A. C. has planned dairy and alfalfa campaigns in eight counties for this fall. The counties are: Ottawa, St. Joseph, Midland, Sanilac, Shiawassee, Arenac, Barry and Newaygo. All of these counties are ideally located for the expansion of the dairy business, and the extension department anticipates a big reception for the specialists it sends out.

These county campaigns have proven very popular in the past few years. The dairy and crop specialists sent out by the college can put their message across in the field or barnyard much more quickly than they can from the platform. In every case, where the county campaigns have been held, a big improvement in the dairy and crop practices have been noticed. Many cow-testing associations have been formed as a result of these campaigns.

In spite of the fact that milk is seven-eighths water, it is one of the most important of foods. It is suitable for persons of all ages, and excels other foods by reason of the variety and quality of material it furnishes the body.



Produced 19,154 lbs. of Milk, and 607.8 lbs. of Fat in Eleven Months. Property of E. M. Stewart, of Wayne County.

had at home. This diet resulted in their storing calcium in small quantities approximately proportioned to their body weights. In the second series, when the amount of milk was increased to 1,000 grams (one quart) of milk per day, the storage of calcium was materially improved. Very careful studies with systematic increases and decreases in the daily allowance of milk led to the conclusion that a quart of milk per day must be fed to insure the optimum storage of calcium and phosphorous and the best development of bones and teeth. The third and fourth series of experiments showed the superiority of milk over vegetables as a source of calcium for growing children.

As pointed out editorially in the Journal of the American Medical Association in the discussion of these re-

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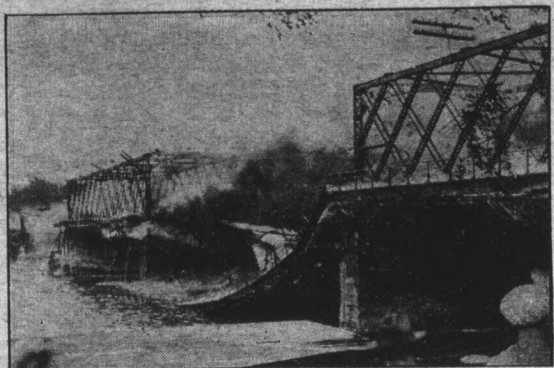
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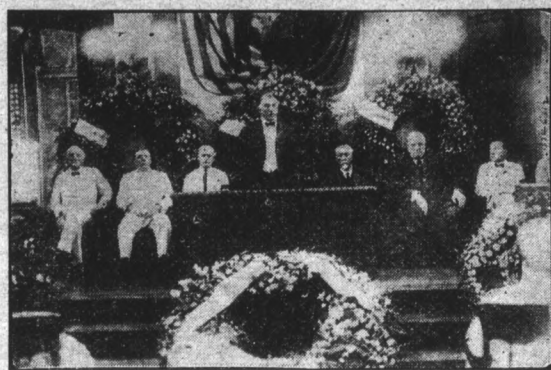
WORLD EVENTS IN PICTURES



Fire wrecked the million-dollar bridge spanning the Connecticut River between Springfield and West Springfield, Massachusetts.



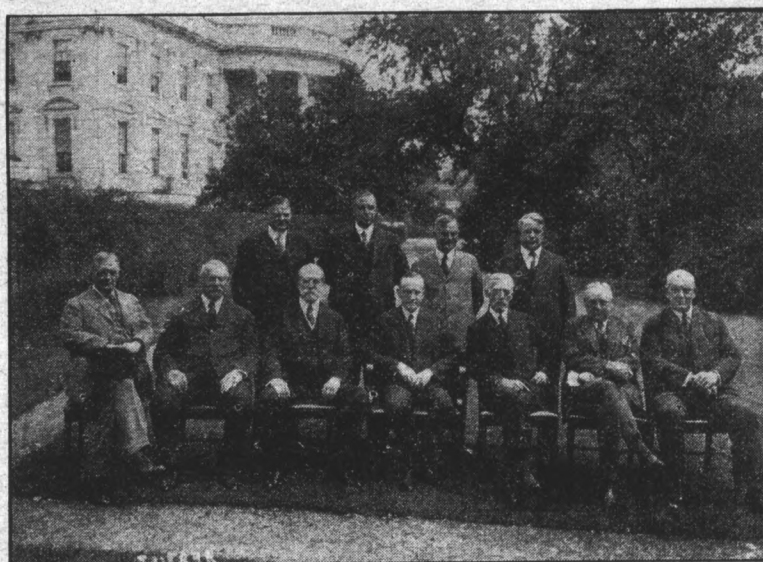
Rear-Admiral Kittelle, of the U. S. Navy, is directing the salvaging of seven U. S. destroyers.



Governor-General Wood presided at memorial services which were conducted in honor of President Harding in Manila, P. I.



As a consequence of the earthquake which wrecked Yokohama, Chief Nipponese Port, the city of Kove will probably become the leading port of Japan.



President Coolidge and his cabinet all set to have their pictures taken on the White House lawn. They are also getting "set" for accomplishments in their various departments.



Twin monuments of scientific progress, the world's largest airship and sky-scraper.



A view of the classic old baseball grounds at New York which was turned into a huge arena for world's heavyweight championship bout in which Jack Dempsey knocked out Luis Firpo.



English Channel champion, an Argentinian, congratulates champion woman swimmer of Europe.



This American delegation to Conference of Inter-parliamentary Union recently assembled at Copenhagen. In center, with hands on back of chair, is American Minister to Denmark, Dr. Prince.



Lieut. Harold J. Brown, of U. S. N., and the Curtiss racer in which he has attained a record speed of 255 miles an hour. He will fly for the Pulitzer trophy at St. Louis.

O H, gosh-a-mighty! You goin' to let that molasses-tapper set right down on you and nefer git off? Can't you see that she wants you? It don't matter what she says! Don't you know it's a dare? Air you going to take a dare? Why, use usen't to when you was a baby! When you year that durned new laugh of Sally's can't you see that somesing's wrong? She's drinking! That's what! You think she'd laugh so and drink if she was happy? You was a fool—yas, a durn fool. It's your fault. Go right up to her like a man and say so."

"I did," said Seffy.

"Hah, you did? An' what she says?"

"She said she knowed it!"

"Well—begoshens! She's a worse fool. Gather her in and make a fool off of her and git efen! Turning her back on an ol' man that harms no one—and her guardeen yit!"

Alas, this was another thing he had done to secure the pasture-field—made himself her legal guardian!

"I'll gif it up—the guardeen. Yassir. She ken take keer herself. Fool—of course. Bose fools! You wait tell she marries that durn molasses-tapper if you want to see fun!"

There was such real agony in the old man's voice that Seffy suffered, too.

"Pappy, I'm sorry—I ain't no good, I expect. I guess I'll go away before the wedding."

"Wedding—wedding! You ain't goin' to let that wedding go on? And him git the pasture-field? Put him between us and the railroad!"

"How can I stop it, pappy?"

"By marrying her yourself!"

"I got enough, pappy," said Seffy hopelessly. "They'll lynch me if I tried it again. I guess I'd better go away."

Quick anger flamed in his father's face at this invertebrate submission. And his voice, when he spoke, was harsher than Seffy had ever heard it.

"Got enough—got enough—that's all you ken say, you bull-headed idiot! Go and apologize and git her back. Don't run. Then marry her next day. That'll settle the molasses-tapper, I expect, and show that you got an inch or two of backbone! Choke her—chloroform her and carry her off!"

Seffy laughed at the absurdity of the thing. But it was unmirthful.

"Gosh-a-mighty! On a time like this you kin laugh! You right, you ain't no good—no, begoshens! You ar an idjot and fool! You no man! No, nor nefer will be! I'm sorry I'm your daddy. I am, begoshens!"

Then, as his wrath mounted, he raised his huge fist and threatened Seffy.

"Git away from me, or I'll break your head! I can't stand you no more! You no good—to nobody. You look like you' mammy's relatives—and they was all no good—git away, I tell you!"

He roared ominously; for Seffy, amazed at this from his gentle old father, was looking straight up at him out of a child's round eyes, his lips parted, his throat exposed. Slowly, as his parent heaped contumely upon him, his sensitive young face whitened, and the light left it. Only, when his father mentioned his mother's name, he said with infinite softness:

SEFFY *By John Luther Long*

Copyright 1905 The Bobbs-Merrill Company

A LITTLE COMEDY OF COUNTRY MANNERS

"Why, pappy!"

But he stood without fear under the great fist—as he had often done.

"You hear! I told you to git away or I'll smash your face in! I don't want you no more. Go to your mammy's relatives out west"—he laughed horribly—"and see what they'll do for you! You'll live on bread and water they ain't got nossing else! You'll

stood that he had done it and with a savage animal-cry he swept the boy into his arms. Seffy doubled inertly upon him, as the dead do. His father raced frenziedly home with him, leaping fence like a hound. He put him upon the pretty white bed the boy had been wont to make with such care for himself. It was dainty and smooth now. The blood dripped from Seffy's

TO A CRICKET

By A. W. Peach

Wee fiddler of the autumn dusk,
The music that you play
Does not remind me of the Junes
Forever passed away.

I do not think of grieving winds,
Of flower petals blown,
Of mournful brooks who wander down
The songless vales alone.

To me you play a merry tune
Of cheery minstrelsy
Though others think your tune is sad
With autumn's mystery.

I think of bins that overflow
With fruit of harvest spoil,
I think of long sweet nights of rest
That follow days of toil.

I think of homelights gleaming bright
Across the quiet miles,
Of loved ones gathered at the hearth,
Of happy words and smiles.

So, little chap, play on, play on,
Your fiddle at your chin—
You play the sweetest autumn song
Upon your violin!

work all day and all night—and you'll haf no fun—they don't know no better—go!"

"Yes," said Seffy turning dumbly away.

There was no doubt that he meant to go now. His dumb acquiescence in his sentence raised his father's wrath to fury.

"Yas—go, and be mighty quick about it. I'm chust itching to smash you. I'll nefer send for you if you rot in the poorhouse. I'll nefer mention you' name as long as I lif—no! I disown you! Never let me see you face again—go!"

It was all so utterly unbelievable that Seffy turned back. This raving madman his jolly old father, who had revered the memory of his mother and had taught him to do so—to mention her every time he prayed? The old man had turned, but Seffy came close and touched him gently. The caress only maddened him. Seffy cowered at the passion on the face of his father. He raised his fist.

"Git out!" he shouted. "If you don't—" But the boy could not, now.

The huge fist trembled on high a moment, some instinct of sanity struggling to control it—then it fell on Seffy's upturned face.

He dropped among the clods—his pale hair mingling with the dust—his hands inertly outlying—terror still quivering in his lips and nostrils. Blood slowly oozed from his mouth and nose, and a livid red mark began to grow upon the depression in his forehead which the blow had made.

One moment—two—the old man looked down at this. Then he under-

face and from his own beard and stained the white coverings. The sight was full of horror! He staggered drunkenly away. He looked hastily for his gun—meaning, perhaps, to kill himself. But then it seemed to him that Seffy sighed. He fell on his knees and agonized for the life he thought he had taken. Then he felt a pulse-beat. With a hoarse cry he rushed out into the road, calling for the doctor. Two people were coming toward him. It was Sam and Sally, returning from their marriage.

By what he saw on Old Baumgartner's face and hands, Sam was sobered. Both understood that they were approaching some tragedy.

"Who?" asked Sally, suddenly oblivious of Sam.

"Seffy."

"Sam!" she turned upon her husband with command. "Bring the doctor!"

Sam went with satisfactory haste. "Who hurt him?" asked Sally, as if she were ready to slay him who did.

"I killed him because he wouldn't marry you! You wouldn't marry him! Oh, you devil!"

It was at that instant that the great change in Sally came. She leaped before him into the house and up to Seffy's room. When the old man slowly followed she was there—with eyes bent upon Seffy bloody, unconscious face. So she kept her eyes. She did not speak. And when the doctor came, she was still there—as at first—unconscious as he, the doctor said.

He was not dead, and presently he breathed again. But his eyes remained closed, and, late that night, when

he had drifted from unconsciousness into deep sleep, they put out the light and left him.

When they came again he had disappeared.

CHAPTER XI.

When Spring Came.

THAT was a cold and lonely winter for the old man. The bay mare stood in the stable and whinnied for Seffy. The old house was full of harsh echoes. Its spirit seemed to have gone. Seffy's father knew now what a rare thing is joy—and what a joyous creature Seffy had been.

The ground was hard to till. And often he thought about what he had said of Seffy's mother.

Then he would toil up the steep stair to the garret—he had become quite feeble—and take out of an old German chest a daguerreotype of her with Seffy in her arms. And sometimes he would cry over it until his beard was wet.

"God bless you, my little boy," he would sometimes say, "that you cared for her more than I did. You nefer called her no names."

"I didn't know I could be so mean to the dead—who don't deserfe it, and can't talk back. And, God'a-mighty! If any one's to be called names, it's me!—not her nor—you, Seffy, nor you! For I expect I'm a murderer!"

And sometimes when his loneliness was too hard to be borne, he would go out and sit for hours and talk to the old bay mare—about Seffy. He fancied she quite understood, and I do, too.

When the spring came he plowed alone. And this was hardest of all. To plow around and around his vast fields with no one to talk, to smile, to laugh to—then, when no one came, to sit under the shade of some tree redolent with memories of the pretty little boy, where he and Seffy had sat, from his childhood to his manhood, and eat the food which choked!

Oh, if he could only have laughed—at himself, at Seffy, at the mare, at anybody or anything! If he could only have laughed!

And he knew that every animal on the place wondered and hungered for little Seffy and questioned him with pathetic eyes, while he, at first, guiltily kept silent—then tried to confess his shame to them.

"Yas," he told the mare, "I done it—I struck him—here, right here! In the face—while his eyes were looking in mine—pleading—and here was blood—and here and here—and dust in his hair—and his eyes were closed—and when I run home wiss him his legs dangled like he was dead. And he crawled away somewheres to die—I don't know why they don't come and hang me. I haf told 'em all that I killed him. But no one don't arrest me."

CHAPTER XII.

The Kiss Like Seffy's.

ONE day he went up to the vine-covered house on the Hill of Delight, with a bundle of papers in his hand.

"See yere, Sally," he said senilely, "yere's you' papers. I gif up the gardeenship. You ken git another one if you not on age yit. I don't keer

AL ACRES—Perhaps Slim Is Really Going to Work.

By Frank R. Leet



a durn who. I'm tired. If it wasn't for you—Seffy would be alive."

Sally dropped her head.

"Yes," she said so humbly that he relented a little.

"I got to do it. I ain't no account no more. I ought to haf a guardeen myself. And people's making such a fuss—you ain't treated us right—no, you ain't! I guess I had better not be mixed in. They say that you married a drunkard, and killed—a man—and got to be a drunkard yourself. But I know better 'bout one, sing. I killed him. Yit they say that you married Sam chust to spite poor Seffy—and yet lofing Sef. Oh, Sef—Sef—why didn't she tell you so!"

He went on heedlessly till he knew that Sally was sobbing. He raised her face and looked into it curiously and saw for the first time that pathetic wanness of which, also, people began to talk.

"Sally," he said then, "you not well?"

"Quite well," said Sally.

"Then you got trouble—trouble, too, Sally?"

"Oh, pappy," she pleaded breathlessly, "don't you turn away from me, too. I have no one but you! No. I have not treated you right. But, oh, life is so hard to me!"

"No," he said, smoothing her hair with his gnarled old hand. "I've had my eyes turned within. But I didn't know you had trouble. I heerd that Sam had took to hard drinkin' and I sought you didn't keer. You was so rackless—"

"Yes," she sighed, "I am reckless! And—yes—I drink sometimes. But it is that way I can forget."

"I don't turn ag'in' no one in trouble, efen if they don't treat me right—and drink—"

"Forgive me! Oh, forgive me, pappy! The suffering is mine!"

"Yas," he said, "yas—don't cry. But the suffering ain't all yourn."

"No," she said. "Not all—not all!"

"But, Sally, if I take the papers back, you won't drink no more? It ain't nice—efen if you air the wife of a drunkard."

"No. If you will be my friend, I will try to be what I would have been as Seffy's wife!"

"It's a bargain—and I'm sorry I spoke so harsh, Sally. Mebby, mebby—God knows!—we ken comfort one another. I—Sally—I need some one, too!"

"Yes! Will you let me? I will have no friend but you!"

"Yas! And I won't have no friend but you, Sally."

"Will you let me kiss you?"

"Do you want to?" he cried tremulously.

"Yes," whispered the girl.

"Me? Sally, lem me kiss you!"

She put up her lips almost solemnly and with that their compact was sealed.

CHAPTER XIII.

One Blow for That to Seffy.

HE took the papers home again, and was gentle with her afterward, for the things which the world blamed in her. His was the only real kindness she knew. Her little canting world had no pity for her. But to her drunken husband, in spite of all, she was a loyal wife, and the old man liked her the better for it.

So it came to pass that they two, the bent old man and the girlish wife of the drunkard, separated more and more from the world and came more and more together. And often they were seen in the fields together and walking along the roads arm in arm.

With Sally's little fortune at command, Sam had gone rapidly to the bad. And Sally came to know what tears were, and that dreadful kind of waiting which falls to the lot of such women—the waiting for the fall of a footstep which makes one shudder yet rejoice.

They told her to get rid of him, but she shook her head and thought of the inscription in her wedding ring.

After a while it was the gentle old man who helped to make these vigils less intolerable—going away stealthily by the back door when Sam's unsteady step was heard at the front—an angel of light if ever there was one in plowman's jacket.

It fell grimly to his lot, too, to provide for Sam by diminishing the little farm he had longed and hoped for, acre by acre. There was no contention between them as to this. The young wife's wishes were his law.

"He married me for that," said Sally, the first time, "and I let him marry me for that—just for spite. Only no one was spited but me—but me—well, he shall have it—all—all"—her voice broke a little—"all but the—pasture-field—that—no one shall have but—you—or Seffy when I die."

Only once he interfered. Sam raised his hand to strike her and he laid the drunkard at his feet with a blow such as he had struck but once before in his life.

"I am her guardeen!" he cried as he struck. "By the Lord, I'm her guardeen!"

For a moment he gloated over the prostrate brute. Then he stood up trembling before Sally.

"Forgif me," he begged. "But I couldn't help it. It done itself. Mebby—God-a-mighty only knows!—it was a chance to efen up for the other one. And yit it was a righteous blow—yas, it was a righteous blow!"

Sally put her hands into his and sobbed.

"Yes," she said. "You are the first that ever saw—"

(Continued next week).

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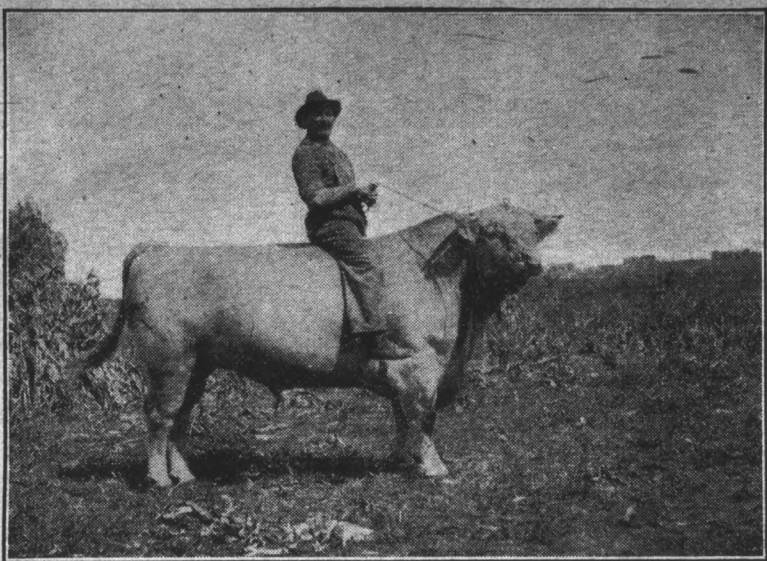
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(2)





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The Story of a Pioneer

Our Weekly Sermon—By N. A. McCune

WHAT surprises us with respect to Abraham is his age at the time he undertook the great venture of his life. The biblical writer is particular to impress this on us. He leaves the land of his birth and starts on a journey of three hundred miles, as the crow flies, across the desert. "And Abram was seventy and five years old when he departed out of Haran." Twenty-four years later he receives the vision which has made his name great.

It is unusual for an old man to receive a new idea. It is extraordinary for an old man to act upon a new idea. The tendency of the age is to look toward the past, and count the departed glories. But when a person of far advanced years does undertake with vigor and decisiveness to live in the



present, it is beautiful. Sir John Franklin was eager to command another arctic expedition, and the first lord of the admiralty said to him, Sir John, you are sixty, are you not?" "Oh, no, your lordship, only fifty-nine." Wesley acted upon a new idea at seventy-seven.

Seaman A. Knapp, at seventy, began his agitation for a more prosperous agriculture in the south, by securing from the federal government a grant of a quarter of a million dollars with which to fight the boll weevil. "Old-fogyism, in short, is the inevitable terminus to which life sweeps us on," says an American educator. But old-fogyism seems never to overtake some people. They are too open-minded for it. Boswell says of Doctor Johnson, "At the age of seventy-four he was more severely afflicted than ever, but still the same ardor for literature, the same constant piety, the same kindness for his friends, and the same vivacity, both in conversation and in writing, distinguished him." From the standpoint of his mental outlook, and his bodily vigor, therefore, Abraham was not an ordinary man. He seems to have been of the same temper as the Greek hero Ulysses, "strong in will to strive, to seek, to find, and not to yield."

HE grows on us, as we read the fascinating story in Genesis. "Get thee out of thy country, and from thy kindred, and from thy father's house." "And Abram took Sarai his wife, and Lot his brother's son, and all their substance that they had gathered, and the souls that they had gotten in Haran; and they went forth to go into the land of Canaan; and into the land of Canaan they came." There were no half-way measures. There was no leaving of relatives behind to whom one might return, in a pinch. And there was no stopping this side of the goal. "Into the land of Canaan they came."

He believed in Providence. He believed he was acting in accord with the leadings of Providence, hence fear played but a small part in his calculations. A positive conviction leaves little room for fear. Only once did he yield to craven impulses, and he was so humiliated by his experience that he never did it again. Pioneering is never built on negatives. The man who goes before must believe that he is going to an Eldorado, else no one will follow him. Moreover, it is worth noting that pioneers are more often than not religious men. Their experiments and costly adventures may not be in the realm of religion primarily, but in the back of their minds they hold to an ever-present Deity, which heartens them, as they go on their way. This is true of the greater part of the men of science of the past hun-

dred years. Lord Kelvin, Pasteur, Romanes, Drummond, Faraday, Dalton, Maxwell, Raleigh, Agassiz, Gray, Dana, Henry, were all pioneers and they were all religious men. To speak of the Puritans is to open up a universe of religious belief, while the early Dutch settlers, the Quakers, the Germans likewise went forth into the new world not without taking account of the guidance of Providence. The early history of Ohio has a most interesting chapter on the Moravian settlements, which appeared before the Revolution. The history of the American Indian would be a different chapter, had all white men adopted the creed of the Moravian brethren, just as the history of Christianity could be written in letters of gold, if all leaders had had the deep faith and the steady vision of Abraham.

LIKE other men, the characteristics which distinguish this man are represented by certain remarkable experiences. There was the time when his herds were separated from the herds of his nephew. The attitude of each man toward the transaction is a perfect limner of his character. In a generous, easy manner, the older man told his nephew to choose the land that looked good to him, and as for himself, he would take what was left. With such an attitude, Abraham would not have cut much of a figure among several thousands, making a rush for government homestead lands. If he adhered to that spirit, he would not have gotten far as a corporation lawyer. He would have been too generous for his clients. And yet we instinctively believe that such a measure of magnanimity is above all the ambitious rivalries and all the grand scheming of which small souls are capable.

And there is that other scene in the life of this man—the hour when he was asked to sacrifice his son! To modern ears this may sound like an impossible tale. The very thought of it is barbarous. No father could offer up his own son. But are not men constantly offering up their sons for objects less worthy? This man of the long ago was giving his son as an offering to Almighty God. But many moderns give their children away, not for the asking, but before they are asked, for money, for business success, for social position, for pleasure. After driving some such intelligent bargain as this, these parents wonder why they are not more happy. Abraham had the best of all such; his object was high and worthy; it was to honor God. A company of American visitors were being shown through Ely Cathedral, England. One of them remarked, "Ely must have been a very large city, to require so large a church as this." The old guide turned about and said, "This cathedral was not built for Ely. It was built for the glory of God."

But the end is filled with rugged beauty. There is the voice from the Unseen, "Lay not thine hand upon the land;" the sacrifice that suddenly appears, the great, undying lesson in obedience. Abraham earned the title that was given to him long after—"The friend of God."

SUNDAY SCHOOL LESSON FOR OCTOBER 7.

SUBJECT:—Abraham, a Blessing to the Whole World. Genesis 12:1 to 4; 18:17,18; 22:1 to 18; Heb. 11:8 to 10,17 to 19.
GOLDEN TEXT:—In thee shall all the families of the earth be blessed, Gen. 12:3.

The test of a man is whether he ages gracefully or bitterly.

A man should not so much consider what he eateth as with whom he eateth.



"Finger Prints" of Leaves

IT is always just heaps of fun to make "finger prints." You have done it before, haven't you? Either out in your sand pile on a warm, sunny day, or in the soft fleecy snow in the winter time. Perhaps your little chubby fingerprints are also in some new cement father has recently made.

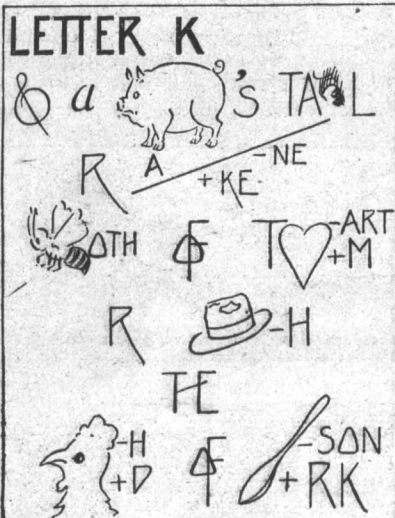
I am going to tell you about a new way of making finger prints, that Ernest Thompson Seton recommends. It is very likely grandmother will remember of doing it when she was a little girl going to school. We will not make our own finger prints this time, but those of leaves. So when winter comes and the leaves have fallen and are covered with snow, we will have a picture of them.

To make these pictures, or finger prints, you will want a thimbleful of unsalted butter or lard, a common candle, or else an oil lamp with the chimney off, some sheets of common soft paper, and last, a selection of ordinary leaves. Choose those leaves which have large veins, and you will have better luck.

First, grease the sheet of paper, rubbing the grease on evenly. Then light your candle or lamp and hold the paper with the greasy side down, over it until it is evenly smoked and a jet

One leaf will make as many finger prints as you desire. It is the black smoke with the grease that makes a carbon ink that is lasting.

The chief mistakes you must avoid are putting too much grease on the paper, and letting the leaf slip. Write the name of the leaf on the print and the date on which you made it. This will help you to soon become familiar with all the different names of the beautiful leaves Mother Nature is growing for us every day.



Can you solve this little puzzle? Sometimes the pictures mean words and sometimes only letters. Try it and save your answer. The correct answer will be printed next week.

"By the Way"

Mrs. Flinn—"Our daughter has taken to housework since going to college."

Mr. Flinn—"Is that right?"

Mrs. Flinn—"Yes, she writes me she is on the scrub team."

Sleepy little Betty was asking for a bed-time story.

Mother—"And what one shall I tell you tonight, dear?"

Betty—"Oh, I guess the one about Puss and the Bootlegger."

In the course of his address a lecturer described some of the sights he had seen abroad. "There are some spectacles," he said, "that one never forgets."

"I wish you would tell me where I can get a pair," exclaimed an old lady in the audience. "I am always forgetting mine."

"A dime's worth of sodium bicarbonate for indigestion at this time of the night!" cried the infuriated druggist, who had been aroused at 2:00 a. m., "when a glass of hot water would have done just as well!"

"Weel, weel," returned the Scotchman hastily, "I thank you for the advice, and I'll no bother ye after all. Good night."

"Are you saving money for the rainy day?" he asked.

"I am not," was the reply. "As far as I'm concerned, it's raining now."

"You, Josie, that snappin' is drivin' me wild, An' as sure as my name is O'Grady I'll be givin' yer gum to the Holligan child."

If you can't learn to chew like a lady! —I. P. Kull.

Invest in a few smiles daily and you will always have interest in return.

My Dear Little Nieces and Nephews:

WE are going to have a corner here in the Michigan Farmer all to ourselves, and I am wondering just how many of you there are. I want those of eight years of age and younger to feel at home here. We will have little things to do, games to play, puzzles to work out, riddles to solve, and a heap of other things; but best of all, in a short time, we will have some stories. We all like stories, don't we?

If you make pictures of leaves as it tells about here below, I would like to hear about it and what fun you had.

Do you like this little puzzle? If you do, we may have more later.

Write your letters to Aunt Martha, Michigan Farmer, Detroit, Mich.

Watch for the story. It's coming. Sincerely,

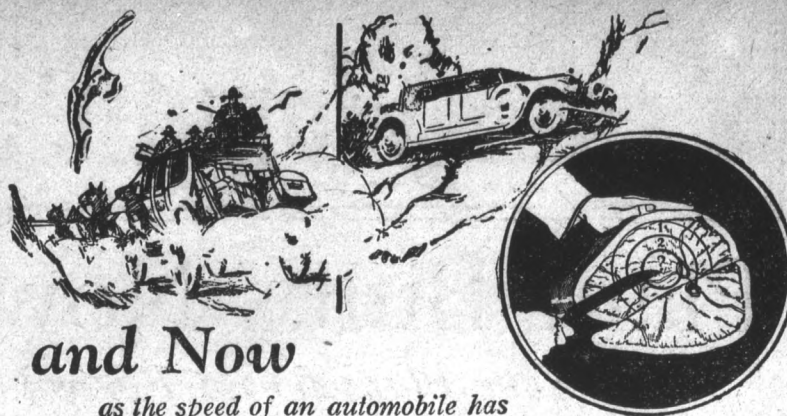
AUNT MARTHA.

black. Keep the paper moving all the time so that it will not take fire. The smoking should be done by grown-ups, for it is not well for little folks to play with fire.

Next lay the smoked sheet on the table, the smoky side up, on top of one or two thicknesses of cloth to make a soft, smooth pad. On this smoke sheet lay the leaf that is to be printed, with the underside to the paper. On top of the leaf place another sheet of paper. Hold it down tight with one hand, and with the finger tips of the other, rub the upper sheet all over so as to press the leaf well into the black of the smoke.

Lift off the top sheet, and take the leaf by the stalk and lay it on a sheet of clean white paper. Lay another clean sheet on this, hold it steady so that neither leaf nor paper will slip. Rub all over the top sheet so as to press the leaf at all points.

Now we are ready to take off the top sheet and leaf, and look! We have a perfect finger print of the leaf.



as the speed of an automobile has made travel swift and sure, so is meat curing made more certain by

a salt that is Quick dissolving!

DRY salt or salt brine is used to preserve the meat and stop decomposition rather than to flavor it. Curing starts on the outside of the meat and works inward. As the salt dissolves it penetrates and protects section after section of the meat from damaging germ attack. This is only possible as the salt thoroughly dissolves and penetrates the meat. If a crust forms on the outside of the meat, it keeps the "pickle" from working into and through it, thus causing an imperfect, incomplete cure.

How This Proves Salt Is Not "Just Salt"

Seen through the eye of the microscope, it is easy to understand the cause of salt crusts and why one salt is so much different from the other. The tiny particles of different kinds of salt are of many shapes and forms. On its shape and form depends the action and result of the salt.

Of the three types most commonly used for general farm purposes one is Cube shape. Like a cube of ice such salt is of a hard and comparatively non-porous form, slow to dissolve—slow in penetration. The second looks like a crystal of glass—flaky but hard. It, too, is slow to dissolve and of low penetrative value.

The third is a soft, porous flake—not unlike a snowflake. This is Colonial Special Farmers Salt. Being of a texture that instantly and completely dissolves, it thoroughly and evenly penetrates to the very center of the meat. The tiny particles cannot cement together in a solid mass

to resist the dissolving action of the water of the brine or the moisture of the meat and stop the cure.

Buying Standards Now Changed

Whether it's for meat curing, baking, butter making or table use your salt cost is a small first cost item. Unknown, cheap and slow dissolving salt may ruin products worth many times the price of the salt. You avoid risk when you use Colonial Special Farmers Salt. You use less of it because it is all salt—pure salt with all the moisture removed. And it does not form in wasteful lumps. A 70-pound bag is as big as a 100-pound bag of ordinary salt. Is always packed in a branded 70-pound bag. The linenized material makes fine toweling.

Send for "Meat Curing and Butter Making on the Farm," a valuable booklet of information.



These new truths are upsetting the old idea that salt is just salt and proving the wisdom of demanding for all farm purposes salt that melts like a snowflake. Meat cured with Colonial Special Farmers Salt always comes out evenly cured, finely flavored and with a pleasing natural color and tender, firm fiber.

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The Michigan Farmer, Detroit, Mich.



Woman's Interests



Plant Bulbs Now for Spring Flowers

Put Your Plans for an Early Flower Garden Into Action This Month

HAVE you forgotten how you envied your neighbor's bed of tulips last spring? And how you vowed you would have some on your lawn next spring?

If you really meant what you said, now is the time to get busy, for spring flowering bulbs must be planted in the fall—any time now, until the ground freezes.

October is an ideal time for planting, for planting at that time allows the bulbs to become established and make some good root growth before freezing weather puts the bulbs to sleep.

First thing to consider is drainage. The bed must be in a well-drained place. Fertilizer is another requisite. Put on a good application of bone meal—an inch deep is none too heavy—and spade into the soil. Mix it well with the soil.

Tulips, hyacinths and narcissus should be planted about four inches deep, and from five to seven inches apart. Anemones should be one inch deep and from four to six inches apart. Note the chart.

Be sure that bulbs of the same kind are all set at the same depth, so that there will be a uniform development in the spring, thus making sure that they will all flower at the same time. It is advisable to mulch the beds with straw, leaves, or strawy manure after the ground freezes. This keeps the frost in the ground and prevents the alternate freezing and thawing which causes the soil to heave, thus injuring the roots. This mulch should be removed early in the spring before the bulbs start into growth.

The Darwin tulips are the finest of all tulips. The Cottage, Breeder and Parrot types should be planted more widely.

Dutch hyacinths are the ones to plant out of doors. Rowan hyacinths are seldom used except under glass. Singles are generally more satisfactory than doubles.

Among the Narcissi there are several types which may be used. The Daffodils with large, medium, and short trumpets, come in the yellows, white, and colors the singles are better than the doubles, the Jonquils, the Poetaz, and the Poetious types. The Polyanthus type, which includes the Paper White and the Chinese Sacred Lily, is not hardy, and so should not be used out of doors.—E. A. K.

COMBINATION CAKE.

THIS is a good recipe for dark cake which my family is very fond of. I use the same recipe with slight variations for layer cake, drop cookies,

fruit cake, or gingerbread made in a drifter.

Layer Cake.

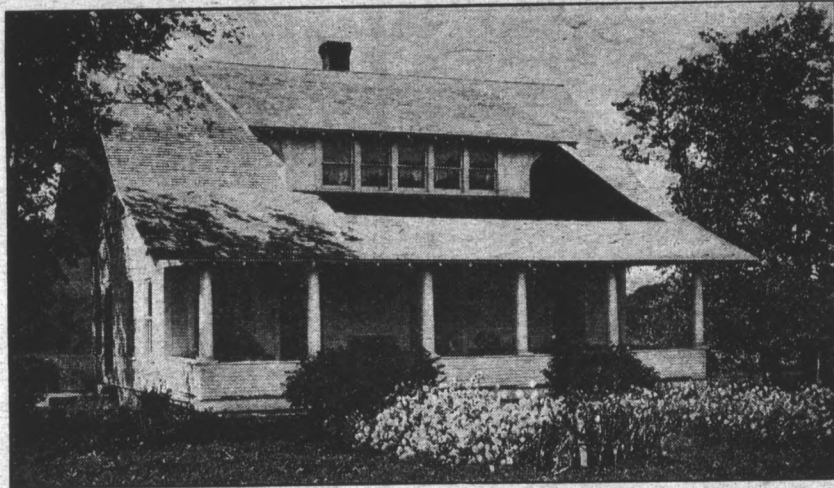
1-3 cup shortening
1 cup white sugar
1/2 cup molasses
1 cup boiling water
2 1/2 cups flour

2 egg yolks
2 tsp. cinnamon
1/4 tsp. ginger
Salt
1 1/2 tsp. soda

Bake in two layers, and ice with boiled white icing made of one cup of sugar and half cup of water boiled together until it hairs. Stir this syrup

will not shrivel. Tops of vegetables should be removed, of course, before storing. Do not cut beet tops close.

Large Quantities.—Store in root cellar in bulk, or in outdoor pits, as follows: Make excavation six or eight inches deep, four feet wide, and as long as necessary. Cover ground with layer of straw, and place vegetables in conical heap of any desired length.



Well-chosen Flowers About the House Attracts the Eye of Every Passerby.

into the two stiffly beaten egg whites and beat until creamy.

For dark drop cakes I use the same recipe, adding two whole eggs, two teaspoonsful cloves, one tablespoon cocoa, and bake in gem pans in moderate oven.

For gingerbread, make as for drop cakes, but bake in a drifter.

For fruit cake add one-half package of raisins and one cup flour. Bake in deep pans. This will make two fair-sized loaves.—Mrs. W. G. S.

STORAGE OF VEGETABLES FOR HOME USE IN WINTER.

IT is to the interest of every family to grow each season a supply of those vegetables suitable for storage, and to see that they are properly stored for use during the winter months when prices are high and vegetables often hard to get. Less work and less expense are involved in keeping them by other methods, as canning, drying, and preserving, and the product retains its characteristic flavor.

Potatoes, beets, carrots, parsnips, winter radishes, turnips, rutabagas, salsify, kohlrabi, may be stored as follows:

Small Quantities.—Store in boxes (or heaps) of slightly moist (not wet) sand or sandy soil in a cool cellar. Put in alternate layers of sand and vegetables. Vegetables stored in this way

Cover with twelve to eighteen inches of straw. On the layer of straw, as the weather gets colder, place a layer of soil four to six inches in depth. If some straw is left protruding at the top of the pile at first, it will provide for the passing off of any heat which may be generated when the vegetables are first covered. This protection will suffice except in the most severe weather, when an additional layer of straw may be added.

In removing the vegetables from the pit after the layer of soil is frozen, a small hole may be chopped in one side and the vegetables needed taken out.

DRYING DAINTY LINENS.

IHAVE an old dresser with a broad marble top and consider myself in luck. I find it the most convenient thing on which to dry dainty, flat linens, although a porcelain top kitchen table would answer the purpose. After washing the linens, I lay them per-

fectly flat on the smooth marble, patting the edges down well. When dry they are lifted up and folded, with a great saving of heat and labor.—G. S.

BORDEAUX SAUCE.

MY winter larder would not be complete unless I had several jars of this sauce, which is excellent to serve with meats.

Bordeaux Sauce.

1 gal green tomatoes
1 head cabbage
5 green peppers
6 onions

1 bunch celery
3 qts. vinegar
4 cups sugar

Chop green tomatoes and cabbage fine and let stand one hour in salt water. Drain and add the remaining vegetables, chopped fine, along with the vinegar and sugar. Boil this mixture for two hours and pack in sterilized jars.—Mrs. A. D. M.

KITCHEN SUGGESTIONS.

WHEN wishing to make a fancy cake, it is rather hard to get your design in the right proportion to the size of your cake. If you will cut a piece of paper the size of the top of your cake, cut the design you wish in the paper and fill in the cut-outs with colored frosting, you will have better success. If time is lacking, the red sugar used for cake decorations may be sprinkled in these cut-outs, leaving a very attractive design.—Mrs. F. R.



If you wish a salad and have no mayonnaise dressing at hand, a good dressing for a fruit salad may be made by heating one-half glass of apple or currant jelly with the stiffly beaten white of an egg and a tablespoonful of confectioners' sugar.—Mrs. C. E.

Things to remember when planning meals:

Fried foods should be used sparingly, especially where there are children. The iron requirement of children and women is greater than for men.

For Late Season Canning

THE following recipes are all a bit different, and will fill your shelves with delicious additions for winter menus. The recipes given all use the "garden's last offerings," and may be made after the weather begins to get cooler.

Quince-Apple Preserves.

Put six quinces and three sweet apples through the food chopper. Boil the quince parings in enough water to make one quart after the parings have become tender. Drain off the juice and add two quarts of sugar. Boil until it is syrupy, then add the quince and apple pulp and cook slowly until it is as thick as jelly. Pour into jelly glasses, and when cool seal with melted paraffin.

Tomato and Apple Relish.

Grind together twelve apples, six mangoes, six green tomatoes, and one pound of seeded raisins. Add one quart of vinegar, two cups brown sugar, one

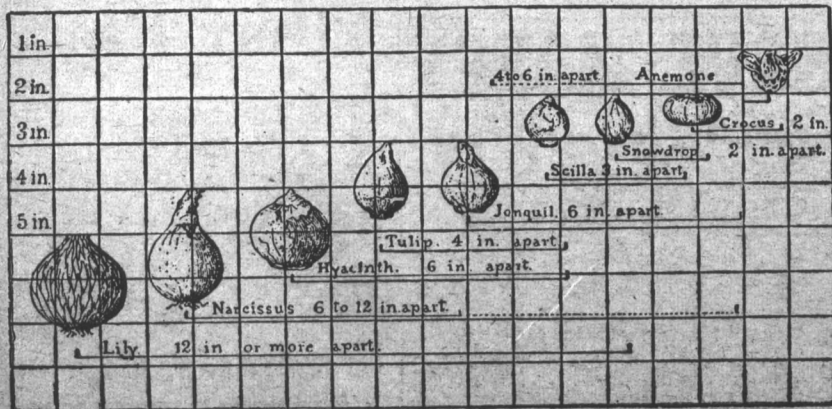
teaspoon celery seed, and one tablespoon of salt. Cook for one hour, stirring occasionally to prevent sticking and burning. Pour into jars and seal.

Horseradish and Beet Relish.

One pint of beets, cooked and chopped, one-half pint of grated horseradish root, one teaspoon of salt, one tablespoon of sugar, and two-thirds cup of vinegar. Pack in small jars.

Sweet Apple Pickles.

For these, use small apples. Cut them in half and remove the core, but do not peel. Pack closely in a sterilized jar and fill with the following: To one quart of water add one and a half cups of dark brown syrup, a scant cup of vinegar, two or three sticks of cinnamon, broken up, and a tablespoon of whole cloves. Adjust rubbers and screw the tops on as far as you can with the thumb and first finger. Sterilize in hot water bath for three-fourths of an hour.



Follow this Chart to Have an Even Growth of Your Bulbs.

SAVE A DOLLAR.

SO many good hints were sent in this week on how to save the dollar that it makes me feel wasteful not to be able to publish more of them. Even though we cannot now put into practice certain thrifty suggestions, we may have the opportunity to do so at a later time, and it is interesting to know that there are others who are striving as we are to economize.

One of our readers said that in talking with her friends many had expressed their desire to write to this department but were afraid they might make some mistake in writing.

Perhaps those ladies are forgetting that we all make mistakes. When I receive your interesting letters, I am not looking for grammatical errors or poor penmanship, but to grasp the new suggestions, recipes, and the friendliness you have expressed there. All the material is edited before it is printed in the paper. So cast away the fears of mistakes and whenever you feel like writing about your little discoveries or telling of your home difficulties, I shall ever be glad to hear from you. No names are published unless you request it.

The third, fourth and fifth prizes, won by Mrs. S. L. B., Dunningville, Mich. Mrs. R. S., Mt. Pleasant, Mich., and Mrs. O. W., Elba, Mich., will appear next week.—Martha Cole.

First Prize.

Mrs. A. C. B., Hastings, Michigan.

My "hobby" since I've been a housekeeper, is economizing. We have a family of three children, the oldest a girl of fourteen who is in high school, and two boys fourteen and twelve, for whom I have never bought a yard of woolen material, nor a woolen garment since I bought their baby flannels.

Relatives and friends who know I

For Our Little Folks

LITTLE Folks are the sunshine of the home. Their early training and entertainment demands much attention for they are the men and women of tomorrow.

Help them to find the new "Corner" on page 335, created for those eight years old and younger.

"make over," are glad to hand down their cast-off clothing. It is indeed surprising what remarkably good-looking garments come from the worn and faded clothes, when they are ripped, cleaned, pressed and turned.

Last winter I made each of my boys a suit from women's blue serge suits.

Our daughter feels well-dressed in a high school of over five hundred pupils, and has never had a new dress or coat in her life, except as they have been made from old.

This week I'm making for myself a new coat from my old faded four-year-old one, and no one except my nearest neighbors will recognize the old coat, for in turning it I shall also modernize it, and without an extra bit of expense, except for thread.

Second Prize.

Mrs. C. S., Stephenson, Michigan.

This spring I wanted a bed bolster very badly. So my husband sawed three round pieces of light-weight lumber eight inches in diameter, also eight half-inch strips fifty-two inches long, off from an inch board. Then I could proceed myself by nailing these strips to the eight-inch circles, leaving a two-inch space between each strip and a good space on the bottom where the pillows might be tucked in. I covered this with brown wrapping paper and over that I made a covering of clean flour sacks, which were ripped and patched together, padding the ends a little. I find much pleasure in using this bolster.

A Simple Guide to Proper Food Selection

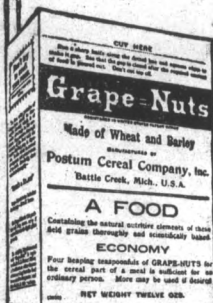
Nourishment— Grape-Nuts with cream or good milk contains every element necessary for perfect nutrition.

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Economy— Grape-Nuts is so compact that a package contains many servings; and each serving provides unusual nourishment. A portion for the cereal part of a meal costs about *one cent*.



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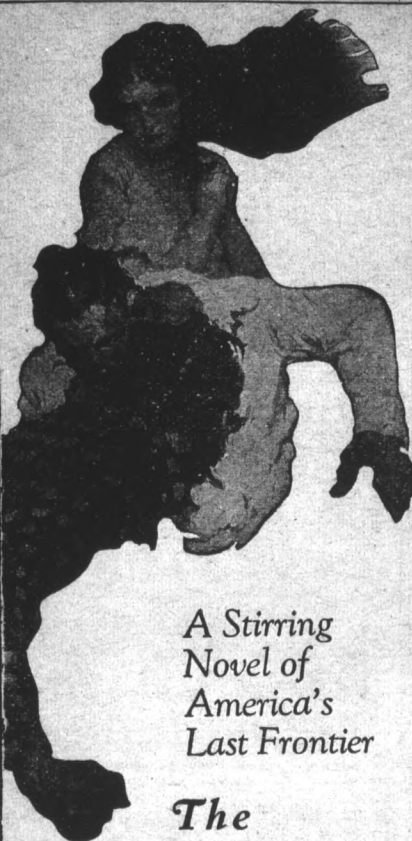
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SPICY TOMATO CATSUP.

Will you please give me a recipe for tomato catsup like that we buy?

Scald one-half bushel of ripe tomatoes and remove skins. Add one-half cup of salt, one pound of sugar, one tablespoonful of cayenne pepper, three teaspoonfuls each of ground mace and celery salt, two tablespoonfuls ground cinnamon and two quarts of vinegar. Cook slowly until reduced one-half. Pass through a sieve, reheat and store in sealed bottles.

RECIPES FOR THE SWEET TOOTH.

I would like a recipe for chocolate candy and pink candy.—Mrs. A. W.

By pink candy, perhaps you mean fondant. This will make a candy which you can keep for a long time, preparing only as needed.

1 cup sugar 1 th. light corn syrup
3/4 cup water 1/2 tsp. vanilla

Put the sugar, water and corn syrup into a saucepan and cook, stirring constantly, until the sugar is dissolved. Then remove the spoon. When the candy begins to boil, cover the saucepan and cook for three minutes. The steam formed will wash down the crystals. Remove the cover and cook until it forms a soft ball in cold water. Pour at once on a cold, wet platter. Cool until lukewarm, add the vanilla, and beat and knead until the mass is smooth and no lumps remain. Into this may be worked any coloring or fruit which you wish. Work into desired shapes and serve.

Chocolate Divinity.

2 1-3 cups sugar 2 egg whites
2-3 cup light corn 1-3 cup cocoa
syrup 1 cup nut meats
1/2 cup water 1/2 tsp. vanilla
1/4 tsp. salt

Put the sugar, corn syrup, salt and

water into a saucepan and cook, stirring until the sugar is dissolved. Then cook for ten minutes. Remove from the fire and gradually pour the syrup over the egg whites which have been beaten stiff. Beat as the syrup is being added, and then add cocoa and beat until the candy will hold its shape when dropped from a spoon. Add vanilla and nut meats and drop in a greased pan.

GOOD RYE BREAD.

Would you be so kind as to send me a good recipe for making rye bread? I seem to have had luck with the recipe I use.—Mrs. J. E.

As you did not tell me the recipe used, I am at a loss to know where to help you. However, the following recipe comes to me thoroughly recommended by one of our readers:

2 cups scalded milk (according to kind)
1 tsp. salt 1/2 cup lukewarm water
2 th. sugar 4 cups rye flour
2 th. shortening 2 cup water
1-3 to 3 yeast cakes

Enough whole wheat flour for kneading.

TOMATO PRESERVES.

Please send me a recipe for preserving husk tomatoes.—Mrs. A. B.

To make husk tomatoes into preserves:

Take equal weights of tomatoes, with the husks removed, and sugar. To each pound of sugar add one cup of water and heat to the boiling point. After skimming, add the tomatoes cut in halves and cook slowly until the preserves are transparent. A few sticks of cinnamon and a bit of cloves adds to the flavor. Pack in sterilized jars and seal.

The more a person works the more energy-yielding foods are required.

Klever Kinks for Busy Bodies

WHEN you wash your new silk blouse for the first time, it is well to play "Safety First" and wash a sample first. Use lukewarm water with a neutral soap in a solution. Never rub soap directly upon the silk fiber. Wash quickly, gently kneading the material in the soapy solution rather than rubbing it. When clean, rinse thoroughly and squeeze out the water by pressing in the hands. Do not twist silk to get the water out. Roll in a heavy bath towel and let stand, then iron on wrong side with a warm iron, or on the right side with a cloth over the material.

When washing ribbons or ties, never put them into water, but use a bowl of warm, soapy water and a sponge or cloth. Lay the ribbon on a table, flat. A marble or porcelain-top table is preferable. Wash the ribbon thoroughly and rinse by drawing it carefully through a bowl of clean water. Dry by laying flat on the table, making sure there are no air bubbles between the table and the ribbon, or wind on a tall bottle until dry.

Any article of clothing will last longer if it is protected from strong light and dust by a cover bag.

These bags are very simple to make and are sewed up the sides with an envelope opening left at the bottom so that the bag can be slipped over the garment. An eyelet is made at the top of the bag just large enough for the hook of the hanger to slip through. The bag should be longer than the garment so as to prevent crushing.

Cambric, cretonne, silkline or unbleached muslin, all make good bags, since they turn dust and will stand laundering. Partially worn pillow

slips make very good cover bags also.

In these days when we have so many weighted silks and adulterated wool material, it becomes quite necessary that the housewife can tell whether the material she is purchasing is worth making up, and whether or not it is worth the purchase price. To test wool for cotton, ravel out warp and woof threads. Break the threads. Wool pulls apart with kinky ends, while cotton breaks. Wool burns very slowly, and gives off odor of burnt feathers and leaves a large amount of ashes while cotton makes a flame and leaves a fine gray ash with an odor of burning leaves. The ends of cotton threads spread out when burning.

The reason that silk dresses and blouses sometimes break at the seams or crack soon after they are made up is that they are weighted. Burn the sample of silk. True silk burns slowly, the ash curling up into a tiny ball on the edge of the burning material. An odor of burning feathers is given off. If weighted, silk burns slowly and the sample will retain its shape. The more weighted silk is, the shorter will be its life.

When white wash silk becomes yellow, it may be bleached by using a solution of hyposulphite of soda. Dissolve one-quarter cup of the crystals in four quarts of water and divide the solution into two parts. The clean silk is first dipped in one portion of the liquid and allowed to stand five minutes, after which it is immersed in the second portion for five minutes. Rinse the garment thoroughly and roll in a turkish towel. Iron on the wrong side while only slightly damp.

Aspirin

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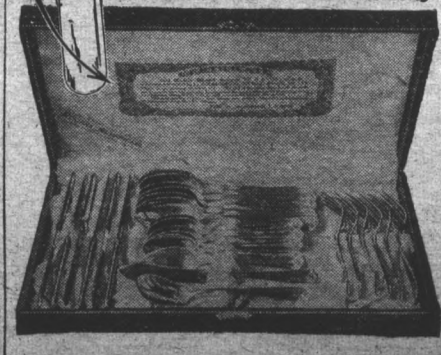
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Rural Health

By Dr. C. H. Lerrigo

THE POOR BOY AND MEDICAL STUDY.

IT is not easy for the poor boy to get a medical education, but it is just as possible for the right kind of a poor boy as it ever was. But he must start with a tremendous supply of grit and determination. I hesitate to name in one sum the amount that a medical education is estimated to cost nowadays. I fear that one look at the sum total would give the boy a fit of the trembles. But it is as well to bear in mind that the money is only paid in reasonable payments, the sum required for a year's tuition being the largest amount to be planked down at any one time.

Acquiring a medical education is a long process. Following the graded school must come a high school course and then two years of regular college work before the student even gains admission to the medical college. Then he studies for four years more and is graduated with the degree of Doctor of Medicine. He is not yet ready for general practice, however, but must serve an internship of at least one, and preferably two, years in a general hospital.

The fees of medical colleges are much higher than formerly. When I went to college we paid \$65 per year, and the very best colleges in the land charged only \$100. Now a big school like Columbia charges \$332 a year. Rush charges \$240. The lowest priced medical schools are those of the State Universities, which fortunately possess the additional qualifications of being among the best. University of Michigan Medical School at Ann Arbor, charges \$180 for each of the four years.

Formerly the college year was short and a student had six months of each year in which he might devote his whole time to outside work. Now he is required to study from September 25 to June 16, so he has little time for outside working.

The bright side of the story is that poor boys still do manage to work their way through colleges of medicine and when through they have a worthwhile foundation. Many of the best colleges stand willing to help by giving free scholarships. The thing for the boy with a desire for the study of medicine to do is to pitch right in to the studies now before him—the rural school, high school or whatever they may be—and go ahead one year at a time, with confidence that he will win his way as he goes.

KEEPING AWAKE A HURT HEAD.

My three-year-old boy fell off a gate and hurt his head. He cried a great deal at first, seeming in much pain, but finally quieted down and was going off to sleep when grandma came. She woke him up at once and said it was very dangerous to allow a child who had an injury to his head to go to sleep as he might become unconscious. So we kept him awake until our bedtime, though it was a hard job, and he was very cross. He seems all right now. I want to do the right thing by my children and I wish you would tell me why it was necessary to keep the boy awake.—Mrs. T. R. P.

I know of but one reason—to please grandma. The idea that a child with a head injury must be kept awake is a very old superstition. It grows out of the fact that cranial injuries of a serious nature do not show their worst symptoms at first. There is a slow hemorrhage. After the first shock of pain, the child stops crying and seems to feel better, but gradually is overcome by stupor which is due to the increasing hemorrhage. Seeing the child sink into a sleep and perhaps

never awaken, those who did not understand the situation have thought that if only the sleep could have been prevented the child might have recovered. Thence comes the argument that an injured child should be kept awake. But it is all foolishness. If it is stupor overpowering the little one, no efforts will prevail against it, and if it is natural sleep it is to be encouraged. Let the child sleep.

OVERWORK OR WHAT?

What is the difference between symptoms of anemia, muscular rheumatism, and overworked or broken-down person. I am a man thirty-five years old, not able to do much.—W. K.

The only way to diagnose anemia is by a test of the blood. It always responds favorably to rest and proper feeding. Muscular rheumatism is recognized by its aches and pains. Generally some focus of infection is found to account for it and this being relieved the case clears up. Men of thirty-five seldom break down through overwork. If the break comes it is in later years.

INGROWN TOENAIL.

I have an ingrown toenail which is getting gradually worse all the time. It is grown in not only at the corner but clear along the side. I have scraped it thin through the middle, cut a V out of the top, put cotton under it, and even cut the nail out along the side, but when it grows back it is worse than ever. Can you tell me what to do for it that I have not done?—A. B. G.

The things you have done are all good and should cure the ordinary case of ingrowing nail. I have found that the extraordinary case is frequently accounted for by some other foot defect, such as a broken arch. People who always "tread over" are very liable to ingrowing toenail and always get along better if they are careful to keep the heels of their shoes in good repair, as well as allow plenty of room in the toes. In cases that stubbornly refuse to get well in any other way a cure may be effected by having a surgeon remove a portion of the matrix of the nail.

PREGNANCY.

Anxious.—The first motion of the child is usually felt by the pregnant woman early in the fifth month. Delivery should follow in four and one-half or five months. The pain of childbirth can best be reduced by having a good doctor manage the case from the start.

SUPERFLUOUS HAIR.

Would like some information in regard to killing superfluous hair. Is there any danger of scars?—E. L.

The most safe and successful method of removing superfluous hair, at present known, is by the use of the electric needle. A skillful operator can remove as many as forty hairs in an hour without a great deal of pain to the patient. This is about as long as a single treatment can well be borne either by operator or subject. There is practically no scarring by this method—just a white line.

My desk stands in the dining-room near the window and not far from the stove. I like this place better than a room or office, principally because of the saving in fuel, lights and furnishings; and a place in the shop or barn is not very practical on account of the dust and cold and poor light, unless one has a room built especially for it. Most farmers haven't enough business to stand the expense of fitting up an office; and a place in the house saves a lot of overhead.



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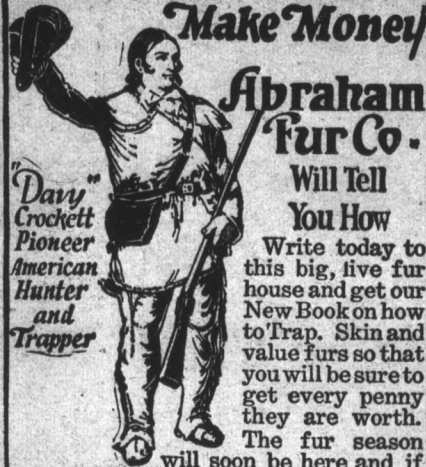
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freshen, repair and reshape them if needed. Furs are very light weight, therefore it would cost but little to send them in to us by Parcel Post and get our estimate of cost then we will hold them aside awaiting your decision. If you say "go ahead," very well; we will do so and hold them free of storage until you want them. If you say "no," we will return them post-paid.

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OUR BOYS AND GIRLS

Found In the Letter Box

Some Interesting Letters from Merry Circlers

Dear Uncle Frank:

Hello, Uncle Frank! I just thought I had to send a letter to you and the cousins, or to the Letter Catcher which you have in your office. I have read the Michigan Farmer for a long while, and I have just picked up nerve enough to ask if I could become one of your nephews.

I think the Michigan Farmer paper is the best paper in Michigan. Every time I get it I always read the Boys' and Girls' Department over.

From a want-to-be-nephew, Kenneth E. Crysler, Reed City, Mich.

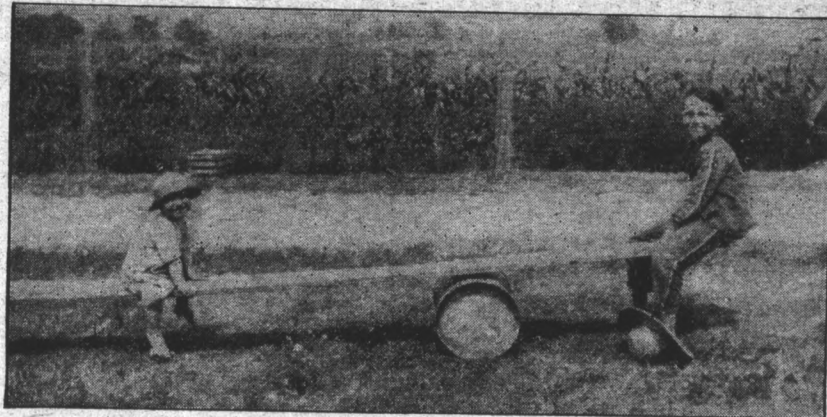
The letter catcher didn't get this one. I'm glad you got up your nerve,

Well, I will close, hoping the old waste paper basket will not get my letter. Yours sincerely, Pauline E. Gerould, M. C., Vicksburg, Mich., R. 3.

I suppose if that had been cold cream it would have been all right on your face. It must have been a nice job to clean up. Am glad you liked the circus, but who doesn't, once in a while.

Dear Uncle Frank:

I am very proud to be able to add M. C. after my name, because I just got my pin and membership card last



First Prize, Photo Contest, Herman King, Grand Ledge, Michigan, Teetering with His Little Brother.

and hope you will keep coming. I also hope you will win a Merry Circle membership soon.

Dear Uncle Frank:

Say, Uncle Frank, your waste paper basket must be full with my letters by this time. I have entered so many contests, but never won anything. But I am going to live up to the motto, "Work-to-Win," so I will keep on trying until I win something.

I think Rex Ellis is right about him winning so many prizes. Why, anybody could win a prize if they only tried hard enough. The trouble is, they don't try.

Wishing you every success in your work, I am, your niece, Elizabeth Marcis, M. C., North Branch, Mich.

I am glad you are going to stick to our motto. Here's hoping you win soon. Perhaps you have not tried hard enough.

Dear Uncle Frank:

I received my Merry Circle button and membership card a few days ago, and I thank you very much for them. I am proud to be a member of the Merry Circle. I can hardly wait until the Michigan Farmer comes so I can read the boys' and girls' page.

The other day when we were taking



Second Prize, Verda A. Cole, Mt. Pleasant, Taking Her Annual Bath.

our cream to town we turned too short a corner and the cream fell over and the cover came off. I can tell you we were a pretty looking sight to be on the road, with cream all over our clothes and hands and faces. We had to turn around and go home then. Mother said now that we spilled the cream we couldn't go to the big circus at Kalamazoo, but we all went, just the same.

I like to see the animals at a circus. They had a nice band which I enjoyed very much. I also enjoyed seeing a man wrestle with a lion.

I am figuring on you as one of the active Merry Circlers. It's fine you like the farm so well, and I hope some time you will get your wish regarding a club.

Dear Uncle Frank:

I have written several letters to our page, but have so far failed to see any of them in print, but as I am a Merry Circler I am not going to get discouraged and give up. I am just going to keep on working till I win—for I want to sit right close among you all.

I have corresponded with fifty-three boys and girls—and although I do not correspond with near all of them now, I still hold them in sweet memory, for their letters were always gladly received. Many times I read over them and laugh and cry, for some were very merry letters, and some were very sad.

I am sure we were all very glad to see you, Dear Uncle, after such a long wait and wonderment. I am inclosing my picture in return for yours, which I put in my album among my many other choice photos.

I would like to write several pages more, but I know poor Uncle Frank is pretty well crowded, so if he will just squeeze over and make room for me among you, I will be just as small as I can. I don't just like the bobbed hair and knicker argument in our page. It's too much like quarreling. I'm for Uncle Frank. Let's change the subject. Glad I have met you all. Good-bye. Ethel Fay Sharp, M. C., Akron, Mich.

I guess I can squeeze over to make room for you. You have had some boys' and girls' correspondence. Your picture is also going in the Merry Circle album.

Dear Uncle Frank:

It has been quite a while since I called before, hasn't it? I don't know whether I thanked you for my membership card and button, or not. But I thank you ever so much for them.

I think your picture looks just like a young man that lives over where I used to live. It is a good picture and I am going to keep it. Don't you worry about it spoiling. Well, Uncle Frank, it's bedtime for me, but I don't suppose it is for you. Your friend, Floyd Cartwright, M. C., Tekonsha, Mich., R. 3.

I am sure I am not the young fellow you refer to, but I am glad I look like somebody you know. I don't know whether it was bedtime for me or not, but I like to hit the feathers early.

Among the Club Workers

Dorothy Holden Keeps Up Family Interest

DOROTHY HOLDEN comes from a family which has been active in Michigan agriculture for a long time, for the Holdens are well-known in Grange and other farmer activities.

She is maintaining the interest in club work which her older sisters and brother had. Her brother at one time won a trip to St. Paul for his work in a calf club; and with the same vim Dorothy is adding club laurels to her name.

She won the county championship in sewing this year, and, therefore, was one of the girls who enjoyed the doings during Club Week at M. A. C. this summer, and was one of the demonstrators at the State Fair this fall. She finished sewing and hot lunch projects last spring and has been in canning club work this summer.

The canning club she belongs to consists of ten members who meet every week. Their canning is being done as a club project. When they first started last year, they got a little financial help; but the holding of a lawn social last summer paid all indebtedness and left some besides.

The club was successful in winning prizes at both the county and state fair. These prizes, with other earnings, paid all expenses of the canning and left about sixty dollars in the

club's treasury at the end of last year's work. This year the club has not canned on a club basis, but it has met for social gatherings and for the purpose of discussing various phases



of canning. Each member is canning on his own account, however.

Dorothy said that club work has been a great inspiration to her. It has taught her many things and has broadened her view of life and its purposes. She has found it wholesome and constructive and believes it is an activity that every rural boy and girl should take part in, both for education and pleasure.

My Ambition, and Why

By the Prize Winners

By John Genrich, Three Oaks, Mich.

My ambition is to go to high school and also to college to become a baseball player.

Almost everyone knows that one must go to high school in order to go to almost any college. After I finish high school, I want to go to college and become an athletic teacher.

The reason why I want to be an athletic teacher is that it will give me more of a chance to become a baseball player. The reason I want to become a baseball player is because that is a good clean American sport. I am an American, and this is one reason that I love the sport.

I think a baseball player is something worth-while being, because it teaches team-work. It teaches one to use his physical powers as well as mental. The spirit and excitement in it is enough to fill one with vim and pep. I have known men to bite holes through their hats in some exciting moments of the spirited game of baseball.

Baseball helps one to keep fit; it brings honor if he is a good player in a big, strong team; it trains the muscles of the body and makes them strong; it makes one ready to expect anything and keep cool; it teaches one the boy scout motto, "Be Prepared;" it brings a good salary and is a good job for anyone who is physically fit.

By Catherine Manseur, Yale, Mich.

My highest ambition is to be a nurse when I grow older.

When I think of those poor men, women and children suffering from all kinds of sicknesses, I think I would be doing my little share in this world by helping to relieve them of their pains, or at least, trying to.

I think trying to cure people from pain and getting results, is a great reward, don't you think so?

I am twelve years old and I am going to start into training for being a nurse as soon as I possibly can.

I think if I would start in by helping my little brothers ease their pains, as cuts and such things, I would get a lot of experience in that way.

We used to have physiology in the seventh grade, but now that I am in the eighth grade I do not have it any more, and I was very much disappointed when I heard of it, but I was benefited quite a lot by it when I had

it in the sixth and seventh grades.

I have read many books about the body that are suitable for a girl of twelve to read.

I would ask nothing better than to be helpful to the sick and helpless.

I have not known just how to state my feelings about being a nurse, but I am trying to, and no one can do more than to try.

AMBITIOUS WINNERS.

THE ambitious contest brought an interesting lot of papers. The ambitions ranged from a plain, honest woman, to a millionaire's wife, for the girls, and for the boys, from

Experience Contest

I JUST got a suggestion from Marguerite Hudson, of Cheboygan, that I am going to use immediately. She suggests that The Most Thrilling Experience I Have Ever Had would be a good subject, and I agree with her. Please tell us your experiences in about two hundred words. The usual prizes will be given for the ten best papers. All who send in good papers will get Merry Circle membership cards and buttons.

Please send your papers to Uncle Frank, Michigan Farmer, Detroit, Michigan, before October 11. Don't forget the M. C. after your name if you are one.

auto baseball players to farmers. The first prize was not given to the baseball ambition because John wants to be a baseball player, but because he stayed to the subject better than most others. He told what he wanted to be and why. Many told what they wanted to be and then filled in the rest of the space with some of their experiences. The writers of the papers above won the pencil boxes. The other winners are as follows:

Pencil.

John Booth, Lewiston, Mich.
Elsie Reetz, Rose City, Mich.
Zona Amos, Owosso, Mich., R. 7.

Map.

James Brower, Holland, Mich., R. 2.
Emma Kushmaul, Coleman, Mich.
Rutherford Bauer, Vassar, Mich., R. 1, Box 24.
Dorothy Henry, Camden, Mich., R. 1.
Charles Wilder, Sherwood, Mich.

Girls Join a Clothing Club

By Elda Robb, Assistant State Club Leader

LAST winter a very successful season of clothing club work was carried on in the state. Three hundred and sixty-one clubs were organized, with 2,922 girls carrying on the work. The project is divided into four consecutive years' work, beginning with elementary sewing during the first year and continuing through the more difficult work of the second, third and fourth year projects.

Each girl keeps a record of the cost of the various garments made, and the store value, should she have to buy those garments from a local store. The value of the garments made by clothing club members last winter was \$10,663.10, while the actual cost was only \$5,171.47, showing that club girls had saved \$5,491.63 by making their own garments.

Clothing clubs are organized in the fall and the work is carried on during the winter months. In the early spring each club holds an exhibit, and their work is judged, a local club champion being determined in each club.

A County Achievement Day is held a little later in the spring, at which

time all the local champions exhibit their work, and the county champions are determined. These county champions, together with the county champions of all the other projects, are the ones who are eligible to attend the annual "Club Week" held at the Michigan Agricultural College each year in July. During this week the work of the county champions is on exhibition, and the state champions are announced at the closing banquet of the week.

Each state champion (the one winning first place in each year's work), receives a scholarship should he come to M. A. C. to college. A great many have already taken advantage of this scholarship, and we hope every state champion will in the future.

It is now the season to again start our clothing club work, and we are hoping for a larger enrollment this year than ever before. Any group of girls who are interested in organizing a club may receive further information in regard to the work, by writing the Boys' and Girls' Club Department, at East Lansing, Michigan.

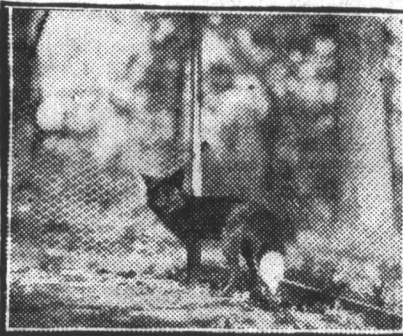
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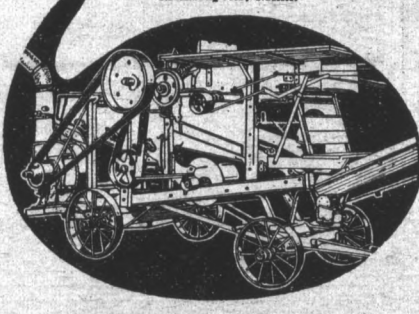
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Picking Michigan's Winners

Some of the Holsteins Chosen to Make the Trip to Syracuse

OFFICIALS of the Michigan Holstein Association are busy rounding up a herd to represent Michigan at the highest-class show held each year in the U. S. A.—The National Dairy Show. This premier exhibition is being staged this year in Syracuse, New York, with the Holstein judging day falling on Monday, October 8. Two of the most famous judges of the breed, W. S. Moserip, of St. Elmo, Minnesota, and T. E. Elder, of Mt. Hermon, Massachusetts, will pick the winners.

The prize money offered for the best state herd of ten animals starts at \$750 for first; \$450 for second; \$375 for third, and on down to \$150 for sixth place. Individuals comprising the state herd must also be entered in the regular open classes of the show. Not more than two head from any one individual breeder can be en-

she took the blue, so it is to be expected that with proper fitting she will go strong at Syracuse.

When it comes to four-year-old cows there is talent galore. Two grand champion females are available. Baynewood Daisy, owned by E. M. Bayne, of Romeo, the Detroit top notch cow, finds a worthy rival in Starlight Veeman Hengerveld, the grand champion at Grand Rapids. She is owned by Garret Ruth, junior member of the well-known breeding firm of John Ruth & Son. Both Bayne and Ruth agree to send their cow and it will take close side-by-side comparison to pick the proper one to carry the honors into the ring at the National. It is more than likely that both these outstanding matrons will be present when the ten Wolverine entries enter the ring at Syracuse when the superintendent bawls out "State Herds."



So Many Top-notch Holsteins in Michigan Made it Difficult to Pick the Individuals to Represent the State at the International Dairy Show.

tered in the state herd. At least five states must enter herds for the class to be declared filled. New York, Pennsylvania and Ohio have already sent in their entries.

State Holstein men are encouraged to send a herd this year on account of the wonderful showing made at the State Fair at Detroit, and at Grand Rapids by the black-and-whites. The problem is to pick the necessary ten head from the tops of these two high-class shows.

To start with, a bull two years old or over is needed to head the state herd. The choice lies between County Veeman Segis Piebe, the grand champion bull at Detroit; Maryland Ruth Colantha Alexis, the Grand Rapids grand champion, and Sir Hengerveld Pietertje Ormsby, the first prize aged bull at the State Fair. The owners of "Count" are a little backward about sending their \$9,000 beauty, and Pietertje Ormsby is hardly in show shape, being purposely kept in breeding condition. So the choice will undoubtedly be Dudley Water's bull, who repeated this year as grand champion at Grand Rapids, Maryland Ruth Colantha, a smooth bull of unusual quality and finish will make a fit leader for the state herd.

To fill the balance of the bull classes calls for a yearling and a calf. The logical yearling bull is Rinkland Hengerveld Rhyma, owned by Rinks and Baumgarten, of Warren. This straight-backed fellow, junior champion at Detroit last year, came back this season as first in his class. For calf there is County Veeman Segis Piebe 6th, the classy youngster who took junior championship this year at the State Fair. He is owned by Lambert and Weber, of Clarkston, who are proud to send him with the bunch.

The female make-up of the herd starts with a class of three cows three years old or over. Babbling Brook Segis Pontiac, owned by Otto Meitz, of Mt. Clemens, should make a creditable showing as Michigan's three-year-old. Her owner led her into the ring at Detroit right out of the pasture and

Backing up this pair in the mature female division will be Waters' Bessie Fayne Johanna who took first in the five-year-old class at the Rapids; and Topsy Pearl DeKol, the black beauty owned by J. B. Jones, of Romeo. This cow came to the Jones' herd from Kentucky where, according to ringside report, she was grand champion of that state, and she was only stopped from the same honors, probably in her new home state by Baynewood Daisy. As it was she pulled in close second at Detroit.

The two-year-old class in the state herd calls for one entry. This should be easily found in the Bayne herd as heifers standing second, third, and fourth at Detroit were Baynewood-bred. The top in this class at the State Fair went to an Ohio heifer owned by Ansted of Monclova. It is just a question of which Baynewood candidate is showing the best form at show time for her to earn the trip.

Detroit Creamery Company Farms have gladly offered their first prize-winner at Detroit to represent Michigan in the yearling end of the state herd. Netherland Queen Piebe is the senior offering. She was reserve junior champion at Detroit. The junior yearling must be bred by the exhibitor, so Velvet Clio will be the Creamery Company's bet in this division.

Nothing remains to consider as part of the state herd except the baby, the heifer calf. This is easy, as John H. Winn, of Rochester, raises winning heifer calves in bunches. His entries have won three years in succession at the State Fair in the get-of-sire class. The sire is Sir Ormsby Skylark Burke. His daughters took the three first places in the junior heifer calf division at Detroit. Winn has agreed to send along a bouquet of heifer calves so the youngest Holstein to uphold Michigan's honor in the state herd is assured.

With a state herd composed of such outstanding individuals, with supplemental entries that may be discovered, Michigan breeders are certainly going to be heard from on the tanbark at Syracuse.—H.

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Best of breeding. The growthy kind that make good.
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Two-year-old sire, grandson of Murne Cowan, and
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Will take note in payment. M. HOMPE, Forest Hills
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10 Reg. Guernsey cows, some A. R. record, from 2
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Pure Bred Holsteins. One and two years old fresh-
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Registered Holstein cows and heifers soon due to
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Tormentor, from the Hood Farm herd, \$85 each. Also
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cows Register of Merit. Accredited herd.
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and good stock getter. A. M. Greenwood, R. 6, Box
15, Coldwater, Mich.

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sale. Tuberculin tested.
J. L. CARTER, Lake Odessa, Mich.

30 Head of Jersey cows and heifers for sale. Chance
to select from herd of 70. Some fresh, others bred
for fall freshening. Colon C. Lillie, Coopersville, Mich.

JERSEY BULLS FOR SALE from tested dams,
Majesty breeding.
Notten Farms, Grass Lake, Mich.

Jersey Bull Very choice, Oxford, Eminent, Flying Fox
breeding. Dropped August 10th, 1922.
Priced low. C. S. Bassett, Kalamazoo, Mich.

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(Herefords since 1839) St. Clair, Mich.

Thumb Hereford Breeders' Association
can supply your needs with outstanding, well-bred
registered Herefords, either sexes, polled or horned
at reasonable prices. Inquire of E. E. TWING, Sec-
Treas., Bad Axe, Huron Co., Mich.

Registered Herefords for sale. Young bulls, also
cows and heifers.—Ralph
Calhoun, Bronson, Mich.

BIDWELL SHORTHORNS
Revolution Jr. 573938
heads accredited herd
28917. Now offering 2 January roan bull calves of
exceptional merit, reasonably priced.
BIDWELL STOCK FARM, Box D, Tecumseh, Mich.

Branch County Farm

Breeders of High-class Polled Shorthorn Cattle. For
Sale, 5 fine bulls bearing service age. Also a few
cows and heifers. Quality and price will suit.
Geo. E. Burdick, Mgr., Branch Co. Farm.

Milking Shorthorns. Our herd consists mostly of
General Clay, Glenside Dairy King & Glenside Bell
Boy. Headed by a good son of Glenside Dairy King
and out of Bessie Thorndale 3rd record 12769 lbs.
Assisted by Fremont Roan Clay, a son of Glenside
Roan Clay, the world's heaviest bull.
Irvin Doan & Sons, Croswell, Mich.

FOR SALE;—Shorthorn Cattle. Improved Black Top
Sheep. Frank Rohrbacher, Laingsburg, Mich.

Shorthorn Sale Oct. 30th

Wm. Geisenhafer & Son, Dimondale, Mich.

WANT to buy 3 or 4 Brown Swiss cows. Must be
near fresh, and of good quality. Address G. J.
Goosin, R. R. 1, Washington, Mich.

HOGS

LARGE TYPE BERKSHIRES of Quality for Sale:
One boar and some gilts, sired by Champion
Superbus 2nd; also some choice gilts sired by Baron
Jr., "son of Baron the Great." Visitors welcome.
Lawrence A. Velte, Woodland, Mich.

Woodlawn Farm Duroc Hogs meet
present day require-
ments, length, size and quality. Young stock for
sale at reasonable prices and fully guaranteed. Write
your wants. W. E. BARTLEY, Alma, Mich.

Durocs, Either sex, yearling gilts, boars ready for
service, pigs \$12.50 up, registered. Satis-
faction or money back. B. E. Kies, Hillsdale, Mich.

DUROC JERSEYS Spring pigs either sex of March
April and May farrow, sired by three outstanding
herd boars. If you want size type and quality combined
come and see or write us. F. J. Drott, Monroe, Mich. R. 1

FOR SALE Big Husky Duroc Jersey
spring boars from large pro-
lific stock. Cholera immune. Satisfaction guaranteed.
Jesse Bliss & Son, Henderson, Mich.



SEEKING UNIVERSAL WOOL GRADES.

GEORGE W. WILLINGMYRE, wool
specialist of the department of ag-
riculture, has conferred with the com-
mittee representing the Bradford
woolen industry in England with re-
gard to wool grades, and is bringing
back a set of grades based upon the
English count system, representing
the composite idea of the Bradford
trade as a basis for universal stand-
ards.

The tentative grades recently estab-
lished by the department of agricul-
ture are producers' grades, based on
blood percentages. The count system
which is the terminology of the buying
trade, is used in Australia and Eng-
land. This system gives each quality
of wool a specific number.

The department of agriculture in co-
operation with the department of com-
merce is now making research studies
with a view to formulating a grading
system that can be applied uniformly
from producer to spinner.

The set of grades prepared by the
Bradford committee is to be used as
a basis for research work. The com-
mittee endorses the idea of a univer-
sal standard. It may take years to
reach an agreement as to what should
be acceptable world standards, but
progress in this direction is being
made.

BEEF CATTLE SALES FOR 1922.

A SURVEY of the pure-bred beef
cattle prices in 1922 included re-
ports from breeders in thirty-four
states, with sales of 13,108 animals.
Of the breeds for which sales were
made there were 1,443 Aberdeen-An-
gus; 6,334, Herefords; 434, Red Polls,
and 4,897 Shorthorns.

The reports show that the herds are
being culled closely, only the better
animals being kept. Low prices re-
sult in ridding the herds of many in-
ferior animals.

It is found that farmers are learn-
ing more accurately the type desired
on the markets. They are realizing
that it pays to produce the kind of an-
imal that the markets demand.

A FOOD FOR ALL STOCK.

M. R. F. B. Morrison, of the Wiscon-
sin Agricultural College, is con-
vinced that soy-beans are an excellent
protein-rich feed for live stock. Soy-
beans are known to be richer in pro-
teins than even the best grades of lin-
seed meal. Furthermore, the proteins
in soy-bean feed are of such character
that they balance or supplement effi-
ciently the proteins in the ordinary
farm grains. The fact that the soy-

beans contain proteins of such high
quality is an important one, especially
in feeding swine which are not on
pasture.

Experiments have shown that in
feeding dairy cattle ground soy-beans
may be used successfully as a substi-
tute for linseed meal or cottonseed
meal. In fact, soy-beans are worth as
much per ton as these expensive feeds.
The bean may also be used success-
fully in sheep feeding.

In feeding swine soy-beans may be
used as a substitute for protein-rich
feeds, such as linseed meal or wheat
middlings. In fact, soy-beans are a
better supplement than these feeds be-
cause they contain a better quality of
protein. For young pigs at weaning
time, or shortly thereafter, better re-
sults will be secured if some feed of
animal origin is supplied in addition,
such as skim-milk, buttermilk or
tankage.

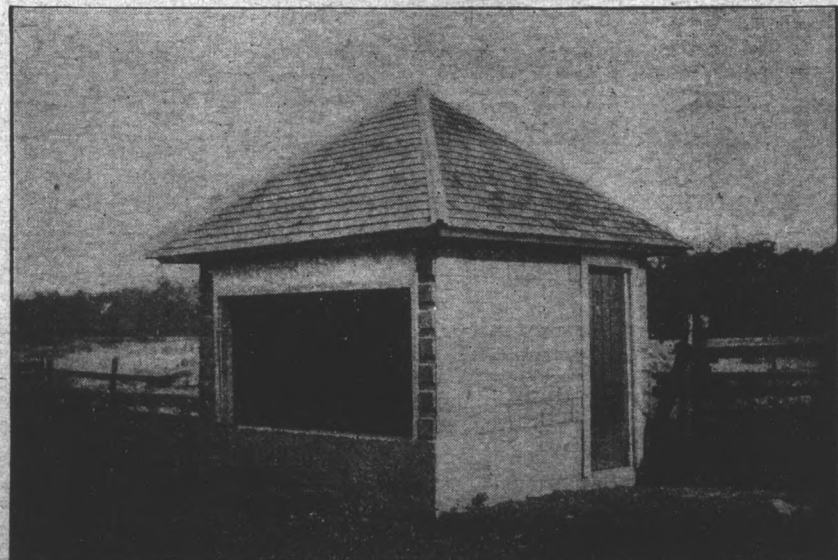
In feeding soy-beans to swine it
must always be remembered that if
too large a proportion of soy-beans is
fed, the quality of the pork may be
injured by being made soft. Much
trouble has been experienced in the
southern states from this condition,
where hogs are extensively fattened
by hogging down soy-beans. Such pork
sells at a very heavy discount.

Soy-bean oil meal is free from the
disadvantage of the whole soy-bean in
producing soft pork. At the present
time the amount of this meal produced
in the United States is not sufficient
to meet the demand, but a consider-
able amount is imported from the
Orient. Consequently, this feed has
become quite common on the Pacific
Coast.

PUSHING THE SWINE BUSINESS.

THE Copper Country Fair Associa-
tion has been promoting a pure-
bred swine campaign in Houghton
county. It maintains that hogs are
cheaper to raise, and turn out more
product in a year than almost any
other animal grown on the farm. The
fair offered \$425 in premiums for ex-
hibits of standard breeds of swine ex-
hibited this year. A large ice cream
concern of Hancock, Houghton county,
is pushing for better dairy stock by
distributing free to its farmer patrons
five pure-bred bulls, on the condition
that the animals will serve the neigh-
borhood in which they are placed.—C.

When fed to horses, in large quanti-
ties, wheat is apt to develop diges-
tive disturbances and also cause skin
eruptions. The best plan to follow in
giving the grain to horses is to feed
in moderate quantities only. Grind it
coarsely and mix with some other
bulky feed like bran or chopped hay
or straw.



The Substantial Cement-block Tank House Doing Service on the Farm of
Leo C. Reynolds, Shiawassee County.

FIRST PUBLIC AUCTION **Caberfae Herefords** Caberfae Ranch, Boon, Mich. Property of Ira Nelson Morris, Chicago At Chicago International Sales Pavilion Union Stock Yards Thursday, October 11, '23

50 Cows with their 50 Sucking Calves
 25 Bred Cows and Heifers
 25 Choice Yearling Heifers
 25 Rugged Yearling and 2-year Bulls

1 Harris-bred Repeater Bull
 1 Harris-bred Son of Beau Blanchard
 Caberfae here represents Fairfax, Anxiety, Disturber, Columbus, Corrector, and other great bloods, bred from America's best herds. Females bred to, and young cattle sired by, Repeater and Beau Blanchard Sires. TUBERCULIN TESTED, Caberfae never had a reactor.

BABY-BEEVES are bred and fed more profitably than any other. For this purpose the pure-bred Hereford is no equal. Those who breed their own feeders go safe, avoiding speculation.

BEEF IS A STAPLE NECESSITY. Herefords produce it best. A valuable necessity like Hereford cattle will always be wanted. 50 years has witnessed three low tides in pedigree cattle prices, each followed by higher tides. The present low tide is sure to turn to the inevitable rise. Profit by it.

PRESENT CONDITIONS FAVOR BUYERS. Good notes will be taken.

Let's talk things over further in the catalog and at the sale. For Catalog address

T. F. B. SO'HAM, Sale Manager, St. Clair, Michigan

Our Entire Herd of Shorthorns "Young Marys"—Good Milkers

Go in our Sale on

Wed. P.M., Oct. 10, '23 At the Farm

One Mile East of Coleman, Mich.

Your Opportunity—Get the Catalog and Come

W. E. CUM INGS, Coleman, Mich.

HOGS

DUROC JERSEYS

We are offering this fall 60 very fine Gilts of a breeding that is valuable to the farmer growing pigs for the pork market.

This stock is especially long in body and well developed in form; a valuable, practical type.

Send for photographs and full description and price of this exceptional practical stock.

STATE FARMS ASSOCIATION,
 103 North Rose Street, Kalamazoo, Michigan.

I AM OFFERING BRED SOWS

fall yearling and spring gilts, bred for March and April farrow, that are tops. Mated to O. C. R. K. Col. 2nd and Orion Giant Col. Write for price list.

W. C. TAYLOR, Milan, Mich.

DUROC JERSEYS A few young sows bred for August and September farrow.—E. D. Heydenberg, Wayland, Mich.

DUROC JERSEYS AND DELAINE MERINOS. CAREY U. EDMONDS, Hastings, Mich.

\$10 for a Duroc sow pig farrowed in August, shipped in October. Express paid. Registered free. Write for Pedigree. D. W. Sutherland, Gd. Ledge, Mich.

Prize-Winning Chesters

In competition with Michigan's leading herds, we won 6 firsts and Reserve Champion, showing 7 head. Now offering 1 yearling boar and spring pigs, either sex. **JOHN C. WILK, Alma, Mich.**

Benjamin's BIG TYPE CHESTER WHITE'S

CHESTER WHITES WATCH our ad for fall bred sows and gilts. **WEBER BROS. 10 Mile Rd. West Royal Oak, Mich.**

O. I. C's and Chester Whites

Gilts sired by Mich. State Fair Gr. Champion 1921, and bred for March and April farrow to Mich. State Fair Jr. Champion 1922, the common sense type and price.

ANDY ADAMS, Litchfield, Mich.

CHESTER WHITES. We won our share of the best prizes at the big fairs again this year and we are offering good boars, including our prize winners, at reasonable prices and guarantee satisfaction. Cholera immuned. Also fall pigs. **F. W. Alexander, Vassar, Mich.**

Boars—Chester Whites. The big kind Registered, Cholera Immuned and guaranteed. Ship on approval or C. O. D. **Fred L. Bodimer, Reese, Mich.**

O. I. C. Big Type. Will sell cheap. Spring pigs sired by Lengthy Monster. Wt. 665 lbs. at 16 mo. 8 days old. We bred and showed more first prize winners at Mich. State Fair this year than any two breeders in state. **Newman's Stock Farm, Marlette, Mich.**

O. I. C. and Chester Whites. Spring pigs and bred gilts shipped C. O. D. and registered free. Write or come and see them. **J. W. HOWELL, Ovid, Mich.**

O. I. C. April Boars sired by Newman's Choice, No. 111154, a 600-lb. yearling. Head your herd with one of his pigs, shipped C. O. D., reg. free. **Chas. H. Steel, Eaton, Rapids, Mich. R. 8.**

Registered O. I. C. Service Boars and Bred Gilts. Also a few tried Sows, due soon, four Beagle hounds.—**Joseph R. Vanetten, Clifford, Mich.**

O. I. C. March pigs, single or in pairs, also bred gilts for August farrow. **CLOVER LEAF STOCK FARM, Monroe, Mich.**

REG. O. I. C. Yearling Boars. Extra Yearling and Spring Sows. Satisfaction or no Pay. Shipped on approval. **Fred W. Kennedy, R. 2, Plymouth, Mich.**

O. I. C.'s 3 last fall gilts to farrow in August and Sept. 15 spring pigs, not akin, good big stock recorded free. **Otto B. Schulze & Sons, Nashville, Mich.**

Is It Worth While?

A real boar pig sired by Woodford Sensation, Dams of Defender or Pathfinder breeding.

If so,

We have them of Sept. farrow, not only showing extreme quality, but greater size than you will expect to find. Follow M 29 to

Kope-Kon Farms, Coldwater, Mich.

LARGE STRAIN P. C. Nothing for sale till after Nov. 1st. **H. O. Swartz, Schoolcraft, Mich.**

LARGE Type Poland Chinas. Spring pigs, both sex, for sale. If interested, write your wants to **W. Caldwell & Son, Springport, Mich.**

Francisco Farm Poland Chinas **At Auction Friday P.M., Oct. 12, 1923**

At Francisco Farm—Follow the Arrows  Southwest from Mt. Pleasant Northwest from Shepherd

40 Head 25 Spring Gilts 5 Spring Boars **40 Head**
 5 Fall Gilts 5 Tried Sows

A Promotion Sale of

Popular, Practical, Profitable Polands

The tops of the season's production go in this sale and will be sold to the highest bidder without reserve.

Liberal Terms

Strong Guarantees

Get the Catalog

Auctioneers,
Adams & Hoffman

Vaughan's Seed Farm Sale
 at Ovid Oct. 11, 1923

P. P. Pope, R. 3, Mt. Pleasant, Mich.

FIFTH ANNUAL SALE

BIG TYPE POLAND CHINAS

Wednesday, October 17, 1923

Wesley Hile Sells

LIBERATOR—An Outstanding litter by the "King of Sires" closely related to Revelation and Liberator's Best 2nd. Another "Revelation" here.

EMANCIPATOR 2nd—The choicest individuals ever sired by our great breeding boar. Among them is a line bred Giant Buster litter.

PETER THE GREAT 2nd—An outstanding litter by "The Greatest Giantess" with a Liberator dam. Another "Genesis" here.

"We Like the Good Ones and Believe You Do"

The litters noted are but a portion of the good things offered. Plenty of outcross blood, as usual, will be available for former customers. Every individual is outstanding and of the best breeding obtainable. Nothing offered over two years old; nothing younger than March 24, 1923, farrow. We have them bigger and better than ever before. A catalog is yours for the asking.

We will sell this great offering in the best Sales Pavilion in the state—the \$10,000 National Bank Sales Pavilion on the Fair Grounds, Ionia. Come over and enjoy the day with us.

Waffles & Hoffman, Auctioneers
P. P. Pope, Fieldman

Wesley Hile, Ionia, Mich.

New Milch Cows & Springers

IN CAR LOAD LOTS

HEALTHY MICHIGAN CATTLE AT PUBLIC AUCTION SALE

You Can Buy One Cow or a Carload

Fifty-two head of New Milch Cows and Springers to select from, all carefully selected by one of Michigan's best Judges of Holstein Cattle.

Straight top lines and good shaped udders, selected for both type and profitable production.

A number of well bred heifers and heifer calves of good type and breeding.

Ten good Bulls and Bull Calves, chosen from some of the best Holstein Herds in West Michigan.

One young Bull out of a cow on Semi-official Yearly Test that has produced 17,429 lbs. of milk and 733 lbs. of butter in 8 months.

Young Bulls out of A. R. O. Dams with Records from 27 lbs. to 30 lbs. Butter in 7 days, and sired by some of Michigan's Best Bulls.

Cows with good A. R. O. Records.

Cows and Heifers out of good A. R. O. Dams with 7 day Records up to 28 lbs., and sired by Bulls out of Dams with Records up to 34.71 lbs.

The Buyer will not be limited to just a few good animals to choose from. Undesirable animals have been rejected by our inspector.

You can find what you want in this Sale.

If you want New Milch Cows or Springers for profitable Winter Milk and Butter Production, you will have 52 head to select from.

If you want a high-class Herd Bull of good type and Breeding, you will have 10 Bulls to choose from.

Seventy-nine Head of Cattle in the Sale.

The Cattle all come from Healthy Michigan Herds, and are sold with the usual 60 days Tuberculin Retest Guarantee.

THIS IS OUR THIRTEENTH ANNUAL WEST MICHIGAN HOLSTEIN BREEDERS OCTOBER CONSIGNMENT SALE.

Our Aim is, "SATISFIED BUYERS."

Our Motto is, "HONESTY AND PROGRESS."

Remember the Date

Wednesday, October 10, 1923

The Place

The West Michigan State Fair Grounds

Grand Rapids, Mich.

IF INTERESTED, WRITE FOR SALE CATALOG

W. R. HARPER, Sale Manager

Middleville, Michigan

VAUGHAN'S SEED FARMS

Present Their First Public Offering of

Superior Poland Chinas

Thursday, October 11, 1923



At Ovid, Michigan 30 Head

Ovid's Revelation

The cream of our herd of more than 300 head goes in this sale. It will feature the get of "Ovid's Revelation", by the Champion "Revelation". There will also be some "Peter the Greats" for those who favor the extreme.

Auctioneers: Andy Adams, John Hoffman

H. C. OVEN, Mgr., Ovid, Mich.

Francisco Farm Sale October 12th

Tenth Annual Public Sale

Registered Holsteins

Howell Sales Company of Livingston County
Howell, Michigan

Thursday, October 18, 1923

At 10 O'Clock A. M. Sale Pavilion Fair Grounds

Eighty head, consisting mostly of cows that will be fresh, or due soon. Many of them are by 30-lb. sires and are bred to good bulls. A 29-lb. cow that has made three records above 27 lbs., and her 24-lb., 4-yr.-old daughter. A daughter of a 30-lb. 3-yr. old cow, and others with good records or from record dams.

Four 30-lb. bulls, three of them Tried Herd Sires that are sold for no fault, but to avoid in-breeding. One from a 31-lb. dam with 961 lbs. butter and 20,180 lbs. milk in one year. One from a 30-lb. cow that has twice milked over 700 lbs. in 7 days. One by the son of a 35-lb. cow with over 1,300 lbs. butter in one year, and out of a 30-lb. dam.

For Catalogs, Address

Wm. I. Griffin, Secretary Howell, Michigan

OUR FIRST PUBLIC SALE

OF PURE BRED POLAND CHINAS

Thursday, October 18, at 1 P. M. at Chesaning

See Advertisement Next Week. Write for Catalog

H1MM BROS., and BONJOUR, R. F. D, Chesaning, Michigan

Additional Stock Ads. on Page 347



Wednesday, October 3.
Wheat.

Detroit.—No. 1 red \$1.13; No. 2 red \$1.12; No. 3 red \$1.09; No. 2 white \$1.13; No. 2 mixed \$1.12.

Chicago.—December at \$1.09@1.09½; May at \$1.12½@1.12¾; July \$1.09@1.09½.

Toledo.—Cash \$1.11@1.12.

Corn.

Detroit.—Cash No. 2 yellow at \$1.02; No. 3, \$1.01.

Chicago.—December at 77½@77¾c; May 75½c; July 76½c.

Oats.

Detroit.—Cash No. 2 white at 49c; No. 3, 46½c.

Chicago.—December at 43¾c; May at 45¾c.

Barley, malting 70c; feeding 66c.

Beans.

Detroit.—Immediate and prompt shipments \$5.75 per cwt.

Chicago.—Choice \$6.30; red kidneys at \$7.30.

New York.—Choice pea at \$7@7.25; red kidneys \$8.25@8.50.

Rye.

Detroit.—Cash No. 2, 77c.

Chicago.—December at 70¼c; May 73¾c.

Toledo.—Cash 75c.

Seeds.

Detroit.—Prime red clover cash at \$14.50; March \$14.75; alsike \$10.50; timothy \$3.85.

Hay.

New Hay.—No. 1 timothy \$21.50@22; standard and light mixed at \$20.50@21; No. 2 timothy at \$19@20; No. 1 clover mixed \$18@19; No. 1 clover \$18@19; wheat and oat straw at \$11.50@12; rye straw \$12.50@13.

Feeds.

Bran at \$32; standard middlings at \$32; fine do \$33; cracked corn at \$40; coarse cornmeal \$38; chop \$35 per ton in 100-lb sacks.

Fruit.

Chicago.—Apples, barrels, "A" grade—Wealthies at \$4.25@4.50; Snows at \$4; Jonathans \$5@5.50; Grimes \$4.50@5; Spies \$4.50.

Peaches.—Elbertas, \$2@2.25 bushel.

Pears.—Bushel \$2.25@2.50.

Grapes.—Baskets, 5 lbs. table grapes 28c; Climax baskets 16 lbs., 60c.

WHEAT

Wheat prices have shown surprising strength in the last week. Most of the loss since the announcement of the record yield in Canada and the start of the heavy after-harvest movement in that country has been regained. The advance is surprising in view of the numerous depressing factors, although part of the strength was borrowed from corn. The movement to primary markets is rather heavy and the accumulation at terminals is the largest at this season, with two exceptions, in the last fourteen years. The exceptions were war years when the price was fixed and there was no gain in holding.

CORN

Cash corn buyers at present are paying the highest prices since the fall of 1920. The amount being attracted to terminals has been smaller than at this season in either of the last three years, in spite of much higher prices, confirming views of scarcity of old corn. The visible supply at terminals remains negligible while the demand maintains fair breadth. Frost damage reports have come in from a wide area while wet weather is delaying maturity and likely to cause molding. It is officially reported from Iowa that only a miracle can prevent a large amount of soft corn in that state. The upturn in cash corn in the last week was accompanied by a rapid advance in new crop futures to a point which would represent about 60 cents to producers in the corn belt.

RYE

The rye market is following wheat, but is in a stronger position than the latter. The North American crop is about 92,000,000 bushels, compared with 127,000,000 bushels last year and the price is already relatively cheaper than wheat.

OATS

Oats prices advanced with corn to the highest point on the new crop. Primary receipts are holding up well and the visible supply is gaining but it is the smallest at this season since 1917. Oats prices are below their usual parity with other feed grains and the following year seems likely to re-

store the normal relationship. World production of oats, twenty-five countries reporting, is estimated at 3,070,331,000 bushels, against 2,791,429,000 bushels last year. The barley crop, twenty countries reporting, is estimated at 968,715,000 bushels against 858,281,000 bushels last year.

BEANS

Bean prices are slightly higher than a week ago, with Michigan choice hand-picked whites at \$6.25 f. o. b. shipping points for immediate shipment, and \$6.10 for prompt. Weather has been more favorable, making possible more rapid gathering and it is believed that plenty of beans will be available in a few days so that the undertone of the market is easy. Pick-ages is high, running about eight or nine per cent, compared with expectation of not over four per cent before wet weather arrived. Demand is good for quick shipment.

SEEDS

Cloverseed prices are holding most of their gains, amounting to around \$4 per bushel on red clover above the low point of the season. The market outlook is strong as a result of the small crop, but higher prices will result in the use of substitutes, such as soy-beans, in larger imports and in more economical use of seed by farmers. In addition, the large carry-over partly offsets the small crop. Prices are likely to work higher later in the season, but may tarry around this level until the movement from producing sections becomes lighter.

FEEDS

The feed market is dull and prices are weak. Neither jobbing nor consuming demand shows improvement. Flour mills are operating at a fairly high rate and stocks of wheat feeds are still accumulating at lake ports and Buffalo. Production of both cottonseed meal and linseed meal is heavy with linseed mills operating at capacity. The domestic flax crop is the largest in a number of years, and two-thirds larger than last year. Wheat feeds are said to be accumulating rapidly at lake ports.

POULTRY AND EGGS

Unusually heavy receipts of fresh eggs for this season of the year have caused a temporary downturn in the market. Arrivals at the four leading markets since September 1 have totaled about 25 per cent more than in the same period last year, when the dry weather curtailed fall production. The increase in the rate at which eggs are disappearing into consumptive channels is much less than the increase in receipts. Better grades of fresh eggs

undoubtedly will advance further during November and December, when receipts are sure to be much lighter but lower grades are in uncertain position owing to the large stock of storage eggs. Receipts of poultry are gradually increasing and are due to mount much higher in the next sixty days.

Chicago.—Eggs, extras 39@40c per dozen; miscellaneous 29@32c; dirties 22@24c; checks 19@21c; fresh firsts 30@34c; ordinary firsts 25@26c. Live poultry, hens 18@25c; springers 20c; roosters 15c; ducks 21c; geese 18c; turkeys 20c.

Detroit.—Eggs, fresh candled and graded 33@35c; storage 27½@31c. Live poultry, heavy springers 25@26c; light springers at 24@25c; heavy hens 27c; light hens 17@24c; roosters 15c; geese 15@16c; ducks 23@24c.

POTATOES

The potato market has been extremely weak in the last ten days and prices have declined almost to the level reached during the heavy shipping season in the fall of 1922. In spite of the smaller crop, carlot shipments from producing sections in the last five weeks have been about the same as in the corresponding period a year ago. Prices are probably close to bottom as the peak of shipments will be past in two or three weeks, and at prevailing levels both consumers and storage operators are likely to take hold more freely. Northern round white, U. S. No. 1, are quoted at 90c@1.15 per 100 pounds, and Red River Ohios at 75c@1 in the Chicago carlot market.

APPLES

Carlot shipments of apples continue to expand and the market is dull. Wealthies are quoted at \$3.75@5 per barrel and Jonathans and Golden Grimes at \$5@6 in midwest consuming markets.

BUTTER

Butter prices are lower than a week ago, but a steady tone has developed in the last few days. Statistically, the market is rather strong owing to the small stocks in storage compared with last year and broad consumptive demand. Production also is declining from week to week. On the other hand, the make is running larger than last year, receipts at the leading markets in September have been about 17 per cent larger than a year ago and withdrawals from storage at those cities during the month have been much smaller than in September, 1922. Some foreign butter is coming in, but not in sufficient quantities or at great enough discount below domestic prices to exert much influence.

Prices were as follows: 92-score

Live Stock Market Service

Wednesday, October 3.

DETROIT

Cattle.

Receipts 653. Market slow. Good to choice yearlings \$10.00@11.50. Best heavy steers 8.50@9.00. Handyweight butchers 7.00@8.25. Mixed steers and heifers 6.00@6.50. Handy light butchers 5.00@5.50. Light butchers 4.00@4.25. Best cows 5.00@5.50. Butcher cows 3.50@4.50. Cutters 2.50@3.00. Canners 2.00@2.50. Choice bulls 5.00@5.25. Bologna bulls 4.50@5.00. Stock bulls 3.50@4.00. Feeders 4.50@6.00. Stockers 4.00@6.00. Milkers \$45@100.

Veal Calves.

Receipts 527. Market 50c lower. Best 14.00@14.50. Others 11.50@13.00. Culls and common 8.00@10.50.

Sheep and Lambs.

Receipts 2,245. The market is 20@25c lower. Best lambs \$12.75@13.00. Fair lambs 11.00@12.50. Light to common 9.00@10.50. Fair to good sheep 6.00@6.50. Culls 2.00@3.00.

Hogs.

Receipts 2,416. Market steady. Mixed hogs \$8.60. Yorkers 8.35@8.60. Pigs 7.25.

CHICAGO

Hogs.

Receipts 22,000. Market is mostly steady. Strong on weighty butchers. Good and choice 250 to 325-lb average \$8.20@8.35; tops \$8.40; good 170 to 190-lb average \$7.90@8.15; bulk better grades 160-lb average at \$7.25@7.85; packing sows largely \$7@7.25; bulk 120 to 140-lb pigs \$6.50@7.

Cattle.

Receipts 10,000. Market on best steers, yearlings, fat she stock and stockers and feeders is strong to 15c higher. Western grassers \$6@8; top matured steers \$12.50; best yearlings \$11.40; many loads of fed steers \$10@10.50; bulls are steady, 25@50c lower. Bulk at \$13.50.

Sheep and Lambs.

Receipts 22,000. Market fairly active, killing grades steady. Bulk of westerns at \$13@13.25; natives \$12.50@12.75; sheep scarce; feeding lambs weak to lower; bulk \$7.50@12.60; a few around \$13.

BUFFALO

Cattle.

Receipts 20 cars. Market is slow. Calves at \$14.

Hogs.

Receipts 15 cars. Market is strong. Heavy \$8.75; yorkers \$9; pigs \$7.50@8.

Sheep and Lambs.

Receipts five cars. Top lambs at \$14; yearlings \$9@11; wethers at \$8@8.50; ewes \$5.50@7.

fresh creamery, at Chicago 44c; New York 46½c. In Detroit fresh creamery in tubs sells for 43@44c.

WOOL

Domestic wool markets have turned firm in the last two weeks and price changes have been slightly in favor of holders. The London auction is holding at the initial advance, a strong tone prevails at the Australian auctions of the new clip and South African and Argentine markets are quoted higher. Since prices in this country are below the outside level plus the duty, and mills are still using up wool at a fairly high rate, there is no justification for a lower market in the early future.

The Boston market is quoted as follows: Michigan and New York fleeces, delaine unwashed 50@51c; fine unwashed 46@47c; half-blood unwashed 52@53c; quarter-blood unwashed at 46@47c. Wisconsin, Missouri and average New England, half-blood 51@52c; three-eighth blood 46@47c; quarter-blood 45@46c.

DETROIT CITY MARKET

Heavy shipments of potatoes has brought prices down; 150-lb. Michigan sacks selling for \$1.85@2 on track, while on the farmers' market spuds are bringing \$1@1.50. Apple offerings are also liberal, with Wealthies and Wolf Rivers jobbing at \$1.25@1.50 per bushel. Snows and Jonathans are \$1.50@1.75. Farmers are selling their apples at \$1.50@2 per bushel on the market. Damson plums job at \$1.50@1.60 per bushel, and pears at \$1.75@3. Market is over-loaded with wine grapes, but table grapes bring \$2.50@3 per bushel. Kalamazoo celery is plentiful at 35@50c per dozen, while local stock sells for 60@75c. Onions are plentiful at \$3.25@3.35 per hundred-pound sack for shipped-in stuff, while farmers are selling for \$1.75@2 per bushel. Cabbage is coming in freely at \$1 per bushel. Eggs wholesale at 42@45c and retail at 50@55c on the farmers' market. Old hens wholesale at 22@26c and retail at 28@32c; springers bring 22@35c, depending upon quality.

GRAND RAPIDS

All Grand Rapids markets are being over-supplied with potatoes, but other commodities are steady. Prices this week were as follows: Potatoes 60@75c bu; cauliflower \$1@1.75 flat; tomatoes 75c@1.50 bu; onions \$1@2 a bu; celery 20@50c dozen; cantaloupes, Osage 75c@1.25 bu; Hearts of Gold 75c@1.50 bu; leaf lettuce 50c bu; head lettuce 75@90c bushel or box; Peaches, Banners, Gold Drops, Smocks and Chili \$1@1.75 bu; plums, Monarchs and Grand Dukes \$1.50 bu; pears Anjou, Duchess, Clageau and Howell \$1.50@2 bu; Seckle \$1.25@1.50 bu; apples, Wealthies 75c@1.25 bu; Shiawassee \$1@1.25 bu; Strawberry \$1@1.50 bu; McIntosh \$1@1.50 bu; Snows \$1 bu; Pippins 65c@1 bu; poultry, heavy fowls 20@22c lb; heavy springers 18@22c; light fowls and springers 13@16c; ducks, no demand; eggs are slightly unsettled; receipts heavier; large firsts 36@37c.

COMING LIVE STOCK SALES.

Poland Chinas.

October 11.—Vaughan's Seed Farms, Ovid, Mich.

October 12.—Francisco Farm, Mt. Pleasant, Mich.

October 17.—Wesley Hile, Ionia, Mich.

October 18.—Himm Bros., Chesaning, Mich.

October 19.—E. A. Clark, St. Louis, Mich.

October 20.—A. D. Gregory, Ionia, Mich.

Holsteins.

November 6.—Eaton County Holstein Breeders' Association, A. N. Loucks, secretary, Charlotte, Mich.

October 10.—West Michigan Holstein Consignment Sale, West Michigan State Fair Grounds, Grand Rapids. W. R. Harper, Sales Manager, Mid-dleville, Mich.

October 18.—Howell Sales Co. Fair Grounds, Howell, Mich. W. I. Griffin, Secretary.

Shorthorns.

October 10.—W. E. Cummings, Coleman, Mich.

October 30.—Wm. Geisenhafer & Sons, Dimondale, Mich.

October 10.—Clayton Winte Shorthorn Breeders' Association, of Genesee and Shiawassee counties, W. J. Hinkley, Secretary, Flushing, Mich., at Mr. Hinkley's farm one and one-half miles east of Flushing.

HOGS

LARGE Type Poland China Spring Boars. Sired by Hoover's Liberator 4th. prize age boar at Detroit, and out of Gertsdale Lady 5th. Fifth prize age sow at Detroit and champion sow at Saginaw. Fall pigs not akin. Write for prices. Dorus Hoover, Akron, Mich.

Vaughan's Seed Farm Polands

A selection from our Prize-winning Herd will go to make up our FIRST ANNUAL SALE, OCT. 11th. Send for catalog and come to the sale. H. C. Owen, Mgr., Ovid, Mich.

L. T. P. C.

Choice Gilts \$25 to \$40. Boars \$30. Fall Pigs \$15. HART AND CLINE. Address F. T. HART, St. Louis, Mich.

WESTERN BRED POLAND CHINAS

Most popular blood lines, with type and quality to match. Herd stock bred out West. Public sale of 40 head, Oct. 18th. Himm Bros., Chesaning, Mich.

Francisco Farm Poland Chinas

PUBLIC SALE OF 40 HEAD OCT. 12th. Come on over—(chicken for dinner). Get your name on the list for catalog. P. P. POPE, R. 3, Mt. Pleasant, Michigan.

Large Type P. C. Lar est in Mich.

A few fall pigs for sale. Sired by "The Wolverine" a grandson of "The Rainbow and Big Bob" the greatest yearling boar I ever owned has size combined with quality. Come and see the real kind. W. E. LIVINGSTON, Parma, Mich.

Large Type Poland Chinas

Spring Boars and Gilts by "The Wolverine" and "M. & W.'s Orange." Our herd sows won 1st, 2nd and 3rd at Jackson Fair. Pigs are well grown and of the right type. Prices in keeping with the times. N. F. BORNER, R. 1, Parma, Mich.

Large Type Poland Chinas of March and April Farrow, both sexes. Bred right. Priced right. George F. Aldrich, R. 6, Ionia, Michigan.

Big Type P. C. some very choice boars doublem born, over 1100 lb. sire and mammoth sows from Iowa's greatest herds. E. J. Mathewson, Burr Oak, Mich.

Spotted Poland Chinas

Michigan's Largest Herd—State Fair winners include Premier Champion Exhibitor's Herd. Premier Champion Breeder's Herd. Over 200 head to select from. G. S. COFFMAN, 1 1/2 miles East of Coldwater, Mich.

Spotted Poland Spring boars and gilts. Choice individuals, best of breeding, cholera immune and registered. Write for description and prices. Clark & Ringquist, Adrian, Mich.

Poland China Sale

Gregory and Barnard will sell jointly, 40 head of high-class Poland Chinas on Saturday, October 20, 1923, at Live Stock Building, Ionia Fair Grounds.

Large Type Poland Chinas

For sale Fall Boars, Gilts bred or open. Herd headed by two Grand Champion boars. A. A. FELDKAMP, Manchester, Mich.

RADIO GIANT

Represents the world's largest strain of Poland China Hogs. Boars, Sows, Pigs at bargain prices from Mich. pioneer herd. We have bred them big for 30 years. We can furnish what you want. JNO. C. BUTLER, Portland, Mich.

Hampshires A few bred gilts left. Place your order now for your yearling pig. Pairs not akin. JOHN W. SNYDER, R. 4, St. Johns, Mich.

Large Yorkshires

Spring Boars and Gilts. Pairs and Trios, not akin. Prize winners at Detroit, Saginaw and Grand Rapids fairs. Chas. Wetzel & Sons, R. 5, Ithaca, Mich.

SHEEP

Several Cars of Delaine Breeding Ewes

Yearlings to four-year-olds. Shear 10 lbs. HIGHEST PRICE WOOL in the WORLD. Car lots at prices which one crop lambs and wool will MUCH MORE than pay. Healthiest and hardiest breed of sheep in America. They will not last long at the price. Must close out.

Geo. M. Wilber, Marysville, Ohio

Registered Hampshire Rams and ewes. Size, type, quality and good breeding. W. W. CASLER, OVID, MICH.

FOR SALE

Reg. Oxford Rams and Ewes Satisfaction Guaranteed.

Write Your Wants

Geo. T. Abbott, Palms, Mich. Telephone: Deckerville 73-3

Idle Wild Stock Farms

offers 30 registered Shropshire rams and 40 ewes. Remember, this flock won all the championships at Fairs.—CLIFFORD MIDDLETON, Clayton, Mich.

The Maples Shropshires—For Sale Yearling rams, right type and quality, sired by 1921 Champion Ram of Michigan. Also ewes. C. R. Leland, Ann Arbor, Mich., R. R. No. 5, Phone 7134-F-13.

The Michigan Agricultural College

Offers for sale a number of Oxford, Shropshire and Rambouillet bred ewes; also a few rams. Address Animal Husbandry Department, East Lansing, Mich.

Veterinary.

CONDUCTED BY DR. W. C. FAIR.

Advice through this column is given free to our subscribers. Letters should state fully the history and symptoms of each case and give name and address of the writer. Initials only are published. When a reply by mail is requested the service becomes private practice and \$1 must be enclosed.

Alsike Poison—Irritation of the Skin.—I take a lot of interest in your veterinary column in the Michigan Farmer, and would like to know what I should have done for my nine-year-old sorrel mare, which has white face and white legs, poisoned by running in alsike pasture. The skin has been irritated for the past three weeks. Our veterinary prescribed lead and zinc lotion. She seems to be failing, growing thin, and when out in lot wanders as if she did not know where she was going. When in stable is inclined to climb wall, does not eat well. Our veterinary is treating her for brain fever, placed ice on head, gave her potassium bromide, her head swelled. I consulted another veterinary and he was inclined to believe she suffered from blood poison. She could not get up; we raised her with sling, but after doing all we could for her she died. What caused her death? E. McD., Whittemore, Mich.—Your veterinarians treated the symptoms and prescribed proper remedies. I am inclined to believe she died from the effect of food poison, but it is not always possible to tell what kind.

Quittor.—I have a six-year-old horse that has a sore low down on leg at top of hoof; pus has been running from it for the past eight months, and it seems to be growing worse. He has been treated by two different veterinarians, without results. E. H. M., Tecumseh, Mich.—Mix six parts of subnitrate bismuth, white wax and soft paraffin, each one part and twelve parts vaseline. Boil and mix, keep in clean jar. The ointment is softened by heat and with glass syringe or rubber tube, fill the fistula and keep it filled. Before doing so, liberate pus by means of hydrogen peroxide.

Lame Cows.—We have a herd of Jersey cows that lately have been going lame. First notice cow walking some stiff, next day a little worse, grunting as if suffering from indigestion, and about the third day, front ankles swell just above the dew claws. Their fetlocks are very sore to the touch. They feel as if full of pus. These cows slip on barn floor and they may hurt themselves. I gave each of them small dose of salts, soon as they acted sick and appeared gaunt. C. O. M., Parma, Mich.—Give each cow a teaspoonful of nitrate of potash in feed or in drinking water two or three times a day. Wet swollen parts, with equal parts tincture of iodine and spirits of camphor daily. Spread sand on barn floor to prevent cows from slipping.

Bunch on Jaw.—I have a heifer with bunch on jaw, caused by kick from a horse. I was afraid it might be lumpjaw. Is the flesh of this heifer fit for food? C. L. P., Chesaning, Mich.—This is not a case of lumpjaw. Her flesh is doubtless fit for food. If you will clip off hair and paint bunch with tincture of iodine daily it should reduce it somewhat.

HONEY Rich, thick, and delicious extracted White Clover; 6-lb. can, delivered, \$1.50. R. J. Whitney, R. 5, Royal Oak, Mich.

SHEEP

RAMBOUILLET RAMS Have twenty-five good strong 1-year-old Rambouillet rams for sale, the kind that increases the weight of the fleece. Fine wool sells for the best price. Pounds are what pays. A. & F. PARMENTER, Durand, Michigan.

Registered Shropshire Sheep, 40 ewes 1 to 4 yrs., 50 ewes and ram lambs, a few yearling rams. Flock established 1890. C. Lemen & Sons, Dexter, Mich.

OXFORDS For the best. Write Wm. Van Sickle, Deckerville, Mich., Rams and Ewes.

Sheep For Sale Cotswolds, Lincolns and Tunis Rams, Lambs, Ewes, L. R. Kuney, Adrian, Mich.

ONE of the finest Delaine stock rams in Ohio. Large size, heavy shearer. Also yearlings. Write S. H. Sanders, R. D. 2, Ashtabula, Ohio.

Delaine Ewes, 50 pure-bred ewes for sale. Good size and heavy fleeces. S. J. Cowan, Rockford, Mich.

DELAINE RAMS, extra, fine ones. Photos Free. F. H. Russell, R. 3, Wakarusa, Ohio.

Registered Hampshire Rams, Lambs, Yearling, and Two-year-old. Express Paid. Prices Right. Cleon Thomas, Sears, Mich.

Shropshires A few rams and ewes of Butter and Senator Bibby blood lines. C. J. Thompson, Rockford, Mich.

HORSES

THREE Registered Percheron Mares, 4 to 8 years old, in fine condition. Will transfer one share P. S. A. stock to buyer. Mrs. M. J. Hunt, Augusta, Mich., Box 54.

The Real Estate Market Place

Special discount given when used in combination with 7 other Capper Publications. Write for special real estate advertising rates on these papers which reach over a million and a half families

PAY NO ADVANCE FEE: don't give option or tie up real estate for any kind of contract without first knowing those you are dealing with are absolutely honorable, responsible and reliable.

80 Acres, Team, Cows Poultry, Crops, Tools, Furniture. Settle right down in this pleasant home and start with an income; well located on improved road, 1 mi. to electric car line, 3 mi. to R. R. town with advantages, good neighbors, with many fine farms in view. 80 acres nearly level, some black muck, plenty wood, variety fruit; 6-room house, cozy cottage design, large porch glassed and screened, excellent water, good col. poultry house, granary, quick buyer gets 2 horses, 2 cows, poultry, farm tools, some furniture, vegetables and farm crops. Price \$3,200—\$1,000 cash, balance easy terms. Write or see Milton Hopkins, Coopersville, Mich., or MICHIGAN FARM AGENCY, 628 Ford Bldg., Detroit.

60 Acres On Improve Road, Stock, Tools, Crops, Only \$3700

Income starts at once; pleasant year-round home assured; 55 acres level loamy tillage, creek-watered wire-fenced pasture; woodlot; 35 apple trees, pears, cherries; 1 1/2 acres strawberries; good 2-story, 8-room house, porch, barn, granary, poultry and hog houses. Owner unable operate, all for \$3,700, and if taken now, horses, 4 cows, heifer, hog, poultry, implements, vehicles, tools included. Part cash. Details page 152, New Illus. Catalog. Bargains many states. Copy free. Strout Farm Agency, 427 K. Marquette Bldg., Chicago, Ill.

Fine 80 Acre Farm For Sale

Close to Grand Rapids on Main traveled cement road. Good soil, good eight-room house, well house and milk house. Well equipped cattle barn for 36 head. Additional barn for 20 more. Three large tile silos, hog house, chicken house, two thousand bushel corn crib, tool house and electric light plant. Four acres wood-lot, creek runs through the farm. Price \$10,500. \$2,000 down will handle it with option on stock, crops and tools. ARMSTRONG & CO., 218 Houseman Bldg., Grand Rapids, Mich.

A Very Desirable Farm 61 acres, adjoining Kent City, on M. 54, for less than the Buildings are worth. Sarah Playter.

Farm Wanted Pay cash for American Farm. No agents. Raymond Smith, Morris, Manitoba.

I Want Farms in Mich. for cash buyers. Describe and state price. R. A. McNow, 324 Wilkinson Bldg., Omaha, Neb.

CASH BUYERS want farms. Give description, price. J. W. Leaderbrand, B-30, Cimarron, Kansas.

Farm Wanted Near school; at spot cash price. Mean business. Fuller, Wichita, Ks.

CLASSIFIED ADVERTISING

This classified advertising department is established for the convenience of Michigan farmers. Small advertisements bring best results under classified headings. Try it for want ads and for advertising miscellaneous articles for sale or exchange. Poultry advertising will be run in this department at classified rates, or in display columns at commercial rates. Rates 8 cents a word, each insertion, on orders for less than four insertions; for four or more consecutive insertions 6 cents a word. Count as a word each abbreviation, initial or number. No display type or illustrations admitted. Remittances must accompany order. Real estate and live stock advertising have separate departments and are not accepted as classified. Minimum charge, 10 words.

Rates in Effect October 7, 1922

Words	One time	Four times	Words	One time	Four times
10.....	\$0.80	\$2.40	26.....	\$2.08	\$6.24
11.....	.88	2.64	27.....	2.16	6.48
12.....	.96	2.88	28.....	2.24	6.72
13.....	1.04	3.12	29.....	2.32	6.96
14.....	1.12	3.36	30.....	2.40	7.20
15.....	1.20	3.60	31.....	2.48	7.44
16.....	1.28	3.84	32.....	2.56	7.68
17.....	1.36	4.08	33.....	2.64	7.92
18.....	1.44	4.32	34.....	2.72	8.16
19.....	1.52	4.56	35.....	2.80	8.40
20.....	1.60	4.80	36.....	2.88	8.64
21.....	1.68	5.04	37.....	2.96	8.88
22.....	1.76	5.28	38.....	3.04	9.12
23.....	1.84	5.52	39.....	3.12	9.36
24.....	1.92	5.76	40.....	3.20	9.60
25.....	2.00	6.00	41.....	3.28	9.84

Special Notice All advertising copy discontinuance orders or change of copy intended for the Classified Department must reach this office ten days in advance of publication date.

MISCELLANEOUS

CALIFORNIA FRUITS.—Introductory assortment 25 pounds. Fancy Dried Fruits: 5 pounds each Apricots, Peaches, Large Prunes, Eight pounds Raisins (3 varieties), 2 pounds Pears, \$5.00. Express Prepaid. Price list freight shipments Dried and Canned Fruits, Nuts, etc., mailed upon request. California Products direct to consumer since 1908. California Fruit Products Co., Box H, Colton, California.

LEAF TOBACCO.—3 years old. Nature Cured. Ever-Ready Safety Razor and six blades, or Imported Briar pipe free with 10-lb. order. 10-lb. packages, select chewing, \$3.50; select smoking, \$3.00; medium smoking, \$1.75. Pay for tobacco and postage on arrival. Farmers' Union, Hawesville, Ky.

NATURAL LEAF TOBACCO. Chewing, 5 lbs., \$1.75; 10 lbs., \$3.00; Smoking, 5 lbs., \$1.25; 10 lbs., \$2.00. Pay when received, pipe and recipe free. Farmers' Tobacco Union, B4, Paducah, Ky.

LEAF TOBACCO.—Chewing, 4 lbs., \$1.40; Fifteen, \$4; Smoking, 4 lbs., \$1.00; Fifteen, \$3.00. Pipe and recipe free. Pay when received. United Tobacco Growers, Paducah, Ky.

TOBACCO.—Extra Smoking, 5 lbs., \$1.00; 10 lbs., \$1.50; 20 lbs., \$2.75. Chewing, 5 lbs., \$1.50; 10 lbs., \$2.75; Quality guaranteed. O'Connor Smokehouse, S133, Mayfield, Ky.

LEAF TOBACCO.—Five pounds chewing, \$1.75; ten, \$3.00; Smoking, Five pounds, \$1.25; Ten, \$2.00. Pay when received, pipe and recipe free. Cooperative Farmers, Paducah, Kentucky.

YOUR auto equipped with the Torson Patented Power Attachment, saws wood, grinds feed, pumps water, runs all farm machinery. Price \$5. Torson Auto Power Co., 2300 Washington Blvd., Kansas City, Kan.

FOR SALE.—New Howe 5-ton, 14-ft. platform, 3-inch plank, 8x8 timber, \$100. Bargain. Write G. A. Bergman, Box 151, Manistiquette, Mich.

PHONOGRAPH Records and piano rolls exchanged. Trade old for new. Stamp brings catalogue, Fuller Ex., Wichita, Kans.

RAILWAY POSTAL CLERKS.—Start \$193 month; railway pass expenses paid. Questions free. Columbus Institute, R. 6, Columbus, Ohio.

RATES

For Real Estate Advertising On This Page

35c a line per issue on 4 time orders
40c a line per issue on 1 time orders
Write for special real estate advertising rates on these papers which reach over a million and a half families

FOR SALE Best producing 40-acre farm in county, only 100 yds. to new, modern high school. Woodlot, buildings, orchard, team, hay. Write or see owner, E. D. Post, Alba, Mich.

Sell your property quickly

for cash, no matter where located. Particulars free. Real Estate Salesman Co., 515 Brownell, Lincoln, Neb.

FARM For Sale, 80 acres, 10 miles from Alpena. Best of Soil, good buildings. Equipped with stock and tools. Sanford Smith, Owner, Alpena, Mich., R. 2.

FOR SALE

Low price, E. Z. terms, or will trade 880 acres cut-over land in Alpena County, Mich. Land lies close to Railroad, good county road and in farming section about 1 1/2 miles from town. M. MITSKUN CO., Detroit, Mich.

Cash Buyers want farms—various localities. Describe fully and give best price. U. S. Agency, Box 42, North Topeka, Kans.

Michigan Farm of 80 acres for sale, improved. \$63 per acre, \$2,000 down. Balance easy. Arthur Davis, Livingston, Ills.

FOR RENT 240-acre farm on State Trunk Line Road No. 37 within 15 miles from Grand Rapids. Large brick house, tenant house, large barn and two silos. Equipped with good working tools, or will rent without tools. Address Fred P. Geib, 323 Houseman Building, Grand Rapids, Mich.

Farmers Wanted Real dirt farmers seeking own good land cheap. Ask any authority about Alluvial delta lands of Arkansas, Mississippi, Louisiana. Little or no cash, long, easy terms. Booklet free. Southern Alluvial Land Association, Memphis, Tenn.

Would you Buy a Home? With our liberal terms. White people only, good land, healthy progressive country. Write for list. Mills Land Co., Booneville, Ark.

200 Acres rich, level land, 190 acres under cultivation, 10 acres timber. Splendid buildings, finely located one mile west of Crosswell on state reward road. James Ragen, Crosswell, Mich.

IF YOU WANT TO LIVE in California, write Kings Commerce, Hanford, California, for free booklet.

Want to hear from party having farm for sale. Give particulars and lowest price. JOHN J. BLACK, Capper St., Chippawa Falls, Wis.

Farm Wanted Send particulars. Mrs. W. Roberts, 320 E. Tray, Roodhouse, Illinois.

WANTED To hear from owner of Farm for sale. Describe.—J. W. Houck, Tiffin, Ohio.

Wanted to hear from owner of land for sale. O. K. Hawley, Baldwin, Wisc.

WANTED—to buy in car lots, No. 1 Timothy Hay, No. 1 Clover Hay, Choice Peagreen Alfalfa, and Potatoes. Broadwater Feed Co., Appalachia, Va.

PET STOCK

FOR SALE—Coon, Skunk, Mink, Fox, Wolf and Rabbit Hounds. C. L. Denton, Ramsey, Ills.

GERMAN Shepherd, Airedales, Collies, Old English Shepherd dogs, Puppies. See illustrated instructive list. W. R. Watson, Box 35, Macon, Mo.

HUNDRED HUNTING HOUNDS Cheap. Free Trial. Kaskennels, MFD, Herrick, Ills.

FOR SALE—Shetland pony and buggy, safe for small children. Earl Hall, Millington, Mich.

POULTRY

FOR SALE—Imported Scotch White Leghorn stock. The kind that lay, weigh and pay. Also breeder of S. C. Buff Leghorns. Visitors welcomed. Fairview Poultry Farm, C. J. Sweet, Prop., Ann Arbor, Mich.

BARRED ROCK Pullets, (5 1/2 months old), cockerels 4 months old, same blood lines as my winning pen at State Fair Laying Contest. All Pullets in production. C. D. Finkbeiner, Clinton, Mich.

YEARLING HENS.—English and American White Leghorns and Anconas. Reasonable prices. M. D. Wyngard, Route 4, Zeeland, Mich.

S. C. W. LEGHORN COCKERELS.—Pure young strain, unlimited range, very reasonable priced. A. R. Atherton, Marcellus, Mich.

COCKERELS.—White Leghorn, from same stock as my leading pen at Lansing contest. Orme Thompson, Allen, Mich.

FOR SALE.—10 to 100 Yearling Leghorn Hens, \$2.00; April Cockerels, \$3.00 to \$5.00; 1924 Baby Chickens, \$25 hundred. Elmer E. Shaw, South Haven, Mich.

S. C. BUFF LEGHORN cockerels. Write for prices and description. Willard Webster, Bath, Mich.

HELP WANTED

FARMER WANTED.—Married man for dairy and general farm near Detroit, who thoroughly understands care of herd (not registered), and is reliable, all around farmer, milking by machine. Applications must state fully age, size of family and former experience. Write or apply Buhl Land Co., No. 6 Buhl Block, Detroit.

WANTED.—FRUIT TREE SALESMEN.—Profitable, pleasant, steady work. Good side line for farmers, teachers and others. Permanent job for good workers. Write for terms. L. E. Hegenfritz Sons Co., The Monroe Nursery, Monroe, Mich. Estab. 1847.

WANTED.—Young, ambitious men over 21 years old to drive milk wagon in Detroit or suburbs. Good wages and interesting work. Must be able to furnish good references. Write in your own handwriting to Box 105, Michigan Farmer.

WHEREVER YOU ARE

Trail Blazers

ALL over the Great West is written the record of the pioneers who blazed the first trails that guided civilization in its westward march.

As settlers followed, Montgomery Ward and George R. Thorne blazed a new trail to them, being first to fill their wants direct by mail and in the complete spirit of the Golden Rule.

Trail Blazers—Business Pioneers we were, and are. Fifty-one years have but given us experience. We stand today more alert, forward looking, searching out new methods in manufacture and trade to secure for you better goods and bigger values and greater savings.

Trail Blazers of over fifty years ago, Montgomery Ward & Co. still clings to this spirit of leadership—we are the Oldest Mail Order House and Today the Most Progressive.

WHATEVER YOU NEED

LEWIS and CLARK
Blazing the Oregon Trail
1804-1805

Fall & Winter 1923-24 Catalogue No. 99
MONTGOMERY WARD & CO.

All over America

This Book is Now Saving Millions of Dollars for the American People

The opportunity is now yours to Save Money on nearly everything you buy—for the Farm, the Home and the Family.

You have a copy of this book—or a neighbor has one. Because into every state, into every city, into every county all over America the Montgomery Ward & Co. Catalogue has gone, bringing its opportunity for money saving this Fall.

Montgomery Ward & Co. Is Working Constantly to Keep Prices Down

Over Forty Million dollars' worth of merchandise has been bought and manufactured especially for this Catalogue, bought when prices were the lowest—articles of steel were manufactured when steel prices were down, leather goods when hide prices were low.

Our buyers have actually searched the important markets of the world in their determination to secure these bargains for you—to help hold prices down, to make your savings larger.

Are You Using This Book?

Are you taking full advantage of your money-saving opportunity? Is your family buying from this book?

You can save many dollars this season if you use this Catalogue, if you buy from it regularly, if you study this book and see for yourself the saving it brings to you.

Ward Quality—And low prices

Never, in over fifty years, have we intentionally sacrificed quality to make a low price. We offer no price baits on unserviceable merchandise.

It is our policy to sell only goods of Ward Quality—the kind of goods that stand inspection and use. So a low price at Montgomery Ward & Co. is always a low price on reliable goods of standard quality.

We believe it takes both standard quality and low price to make a bargain. And every bargain we offer is a reliable, serviceable article that will give you entire satisfaction.

Begin today saving money by using this book. Begin today sending all your orders to Wards—where your patronage is always appreciated, where for over fifty years every customer has always been given a square deal.

MONTGOMERY WARD & CO.

CHICAGO KANSAS CITY ST. PAUL
PORTLAND, ORE. FT. WORTH

Your Order will be Shipped in Less than 48 Hours

Our new perfected system of filling orders is now over a year old.

And our records prove that during the past year nearly all orders were shipped in less than 48 hours.

48 hour service is our promise to you. But we do better than our promise—because a large percentage of our orders are actually shipped within 24 hours.

So you can order from Montgomery Ward & Co. and feel sure that nearly every time your order will be shipped in less than 48 hours, and frequently within 24 hours.

The Oldest Mail Order House is Today the Most Progressive
Montgomery Ward & Co.